AUTHOR LISTING

A

Aaron, D. J. see Pereira, M. A., 28:931, 28:931
Aaron, E. A. see Johnson, B. D., 28:1129
Abad, L. W. see Rall, L. C., 28:1356
Abbey, D. E. see Singh, P. N., 28:1026
Abe, T., Tanaka, F., Kawakami, Y., Yoshikawa, K., and Fukunaga, T. Total and segmental subcutaneous adipose tissue volume measured by ultrasound, 28:908
Abernethy, P. J., and Jürimäe, J. Cross-sectional and longitudinal uses of isoinertial, isometric, and isokinetic dynamometry, 28:1180
Abraham, P. see Desvaux, B., 28:836
Achaïbou, F. see Arbeille, P., 28:S70
Adams, W. C. see McCann, D. J., 28:934
Adams, W. C. see Winters, K. M., 28:776
Afable, R. F. see Berry, M. J., 28:808
Ahmaidi, S. see Granier, P. L., 28:692
Ahmaidi, S., Granier, P., Taoutaou, Z., Mercier, J., Dubouchaud, H., and Prefaut, C. Effects of active recovery on plasma lactate and anaerobic power following repeated intensive exercise, 28:450
Ainsworth, B. E. see Bassett, D. R., Jr., 28:1071
Ainsworth, B. E. see Durante, R., 28:1282
Ainsworth, D. M. see Dempsey, J. A., 28:1123
Albat, B. see Mercier, J., 28:171
Alderson, N. L. see Durstine, J. L., 28:1277
Alfrey, C. P., Udden, M. M., Huntoon, C. L., and Driscoll, T. Destruction of newly released red blood cells in space flight, 28:S42
Ali, S. see Gustafsson, F., 28:1045
Alway, S. E. see Heck, R. W., 28:877
An, K.-N. see Malanga, G. A., 28:661
Anda, R. F. see Brown, D. R., 28:233
Anderson, K. see Epstein, L. H., 28:1157
Anderson, R. A. see Hallmark, M. A., 28:139
Andersson, A. see Branth, S., 28:1272
Andersson, A. B. see Sjödin, A. M., 28:85
Angus, D. J. see Febbraio, M. A., 28:1380
Antonio, J. Book Review, 28:1532, 28:276
Applegate, W. see Berry, M. J., 28:808
Arbeille, P., Achaïbou, F., Fomina, G., Pettier, J. M., and Percher, M. Regional blood flow in microgravity: adaptation and deconditioning, 28:S70
Arborelius, U. P. see Wretenberg, P., 28:218
Armstrong, N. see Welsman, J. R., 28:259
Armstrong, R. B. see Dunn, A. L., 28:204
Arnaud, S. B. see Baldwin, K. M., 28:1247
Auge, W. K. see Heck, R. W., 28:877
Ayers, G. W. see Jackson, A. S., 28:884

B

Babcock, M. A. see Johnson, B. D., 28:1129
Bakker, F. C. see van Ingen Schenau, G. J., 28:1305
Balabinis, C. see Vanderburgh, P. M., 28:626
Baldwin, K. M. Effect of spaceflight on the functional, biochemical, and metabolic properties of skeletal muscle, 28:983
Baldwin, K. M. Effects of altered loading states on muscle plasticity: what have we learned from rodents?, 28:S101
Baldwin, K. M., White, T. P., Arnaud, S. B., Edgerton, V. R., Kraemer, W. J., Kram, R., Raab-Cullen, D., and Snow, C. M. Musculoskeletal adaptations to weightlessness and development of effective countermeasures, 28:1247
Baltzopoulos, V. see Kellis, E., 28:900
Barale, F. see Mujika, I., 28:1435, 28:251
Baranowski, T. see Pate, R. R., 28:92
Barnett, C., Jenkins, D., MacKinnon, L., and Green, S. A new method for the calculation of constant supra-$\dot{V}O_{2peak}$ power outputs, 28:1505
Bar-Or, O. see Unnithan, V. B., 28:1498
Bar-Or, O. see Van Mil, E., 28:1087
Bar-Or, O. Role of exercise in the assessment and management of neuromuscular disease in children, 28:421
Barrett, D. H. see Brown, D. R., 28:233
Barstow, T. J., Scremin, A. M. E., Mutton, D. L., Kunkel, C. F., Cagle, T. G., and Whipp, B. J. Changes in gas exchange kinetics with training in patients with spinal cord injury, 28:1221
Bassett, D. R., Jr. see Turner, M. J., 28:921
Bassett, D. R., Jr., Ainsworth, B. E., Leggett, S. R., Mathien, C. A., Main, J. A., Hunter, D. C., and Duncan, G. E. Accuracy of five electronic pedometers for measuring distance walked, 28:1071
Bates, B. T. Single-subject methodology: an alternative approach, 28:631
Bates, B. T., Zhang, S., Dufek, J. S., and Chen, F. C. The effects of sample size and variability on the correlation coefficient, 28:386
Baum, K. see Eßeld, D., 28:S23
Baumstark, M. W. see Halle, M., 28:962
Beard, E. F. see Jackson, A. S., 28:884
Beattie, K. see Crouse, B., 28:1093
Beillot, J. see Billat, V., 28:1049
Belli, A. see Freychat, P., 28:225
Bemben, D. A. see Bemben, M. G., 28:145
Bemben, M. G., Massey, B. H., Bemben, D. A., Misner, J. E., and Boileau, R. A. Isometric intermittent endurance of four muscle groups in men aged 20–74 yr, 28:145
Benedict, M. see Cassell, C., 28:1243
Beneke, R. see Meyer, K., 28:1081
Beneke, R., Heck, H., Schwarz, V., and Leithäuser, R. Maximal lactate steady state during the second decade of age, 28:1474
Beneke, R., and Petelin von Duvillard, S. Determination of maximal lactate steady state response in selected sports events, 28:241
Benoit, H. see Busso, T., 28:444
Bercades, D. T. see Osternig, L. R., 28:1229
Berenson, G. S. see Myers, L., 28:852
Berg, A. see Halle, M., 28:962
Berg, A. see Schmid, A., 28:1470
Bergey, D. B. Book Review, 28:1214
Bergström, K. see Turpeinen, A. K., 28:33
Berry, M. J., Brubaker, P. H., O'Toole, M. L., Rejeski, W. J., Soberman, J., Ribisl, P. M., Miller, H. S., Afable, R. F., Applegate, W., and Ettinger, W. H. Estimation of $\dot{V}O_2$ in older individuals with osteoarthritis of the knee and cardiovascular disease, 28:808
Bertini, A. see Di Bello, V., 28:190
Bertone, A. L. see Heck, R. W., 28:877
Beunen, G. see Claessens, A. L., 28:560
Beunen, G. P. see Maes, H. H. M., 28:1479
Biaggioni, I. see Robertson, D., 28:S80
Bianchi, M. see Di Bello, V., 28:190
Bilé, A. see Le Gallais, D., 28:541
Billat, V., Beillot, J., Jan, J., Rochcongar, P., and Carre, F. Gender effect on the relationship of time limit at 100% $\dot{V}O_{2max}$ with other bioenergetic characteristics, 28:1049
Bilodeau, B., Rundell, K. W., Roy, B., and Boulay, M. R. Kinematics of cross-country ski racing, 28:128
Blair, S. N. see Jackson, A. S., 28:884
Blair, S. N. see Kohl, H. W., III, 28:601
Blair, S. N. see Oliveria, S. A., 28:97
Blair, S. N. Physical inactivity and cardiovascular disease in women, 28:9
Blair, S. N., Horton, E., Leon, A. S., Lee, I.-M., Drinkwater, B. L., Dishman, R. K., Mackey, M., and Kienholz, M. L. Physical activity, nutrition, and chronic disease, 28:335
Blessing, D. L. see Williford, H. N., 28:926
Blom, B. see Van Mechelen, W., 28:1171
Blomqvist, G. Regulation of the systemic circulation at microgravity and during readaptation to 1G, 28:S9
Boas, S. R., Joswiak, M. L., Nixon, P. A., Fulton, J. A., and Orenstein, D. M. Factors limiting anaerobic performance in adolescent males with cystic fibrosis, 28:291
Bobbert, M. F., Gerritsen, K. G. M., Litjens, M. C. A., and Van Soest, A. J. Why is countermovement jump height greater than squat jump height?, 28:1402
Boileau, R. A. see Bemben, M. G., 28:145
Bonnefoy, R. see Busso, T., 28:444
Boreham, C. A. G. see MacAuley, D., 28:720

Boreskie, S. L. see Ready, A. E., 28:1097
Bouchard, C. see Väisänen, S., 28:1165
Bouchard, C. see Wilmore, J. H., 28:829
Boulay, M. R. see Bilodeau, B., 28:128
Bouten, C. V., van Marken Lichtenbelt, W. D., and Westerterp, K. R. Body mass index and daily physical activity in anorexia nervosa, 28:967
Bove, A. A. Medical aspects of sport diving, 28:591
Braddock, D. see Rimmer, J. H., 28:1366
Branch, J. D. see Dowling, E. A., 28:482
Branth, S., Hambræus, L., Westerterp, K., Andersson, A., Edsgren, R., Mustelin, M., and Nilsson, R. Energy turnover in a sailing crew during offshore racing around the world, 28:1272
Brechue, W. F. see Starkey, D. B., 28:1311
Bredle, D. L. see Proctor, D. N., 28:892
Brooks, G. A. see Nickleberry, B. L., Jr., 28:1396
Brouns, F. see Jeukendrup, A., 28:266
Brown, D. R., Croft, J. B., Anda, R. F., Barrett, D. H., and Escobedo, L. G. Evaluation of smoking on the physical activity and depressive symptoms relationship, 28:233
Brown, M. L. see Utter, A. C., 28:280
Brubaker, P. H. see Berry, M. J., 28:808
Bryant, K. H. see Shi, X., 28:1388
Buchanan, T. S., Kim, A. W., and Lloyd, D. G. Selective muscle activation following rapid varus/valgus perturbations at the knee, 28:870
Buckworth, J. see Dishman, R. K., 28:706
Bulbulian, R., Jeong, J.-W., and Murphy, M. Comparison of anaerobic components of the Wingate and Critical Power tests in males and females, 28:1336
Burkett, L. N. see Fernhall, B., 28:366
Burkman, R. T. Oral contraceptive use and coronary and cardiovascular risk, 28:11
Burns, C. C. Book Review, 28:537
Burr, P. see Gardner, J. W., 28:939
Burrin, J. see Tsintzas, O.-K., 28:1373
Busso, T. see Mujika, I., 28:251
Busso, T., Benoit, H., Bonnefoy, R., Castells, J., Denis, C., Lacour, J.-R., and Geyssant, A. Increase in occlusion pressure with ventilation and response to maximal exercise, 28:444

C

Cagle, T. G. see Barstow, T. J., 28:1221
Caillaud, C. see Mercier, J., 28:171
Callaway, G. H., O'Brien, S. J., and Tehrany, A. M. Chiari I malformation and spinal cord injury: cause for concern in contact athletes?, 28:1218
Calvert, R. E. see Van Mil, E., 28:1087
Cannon, J. G. see Rall, L. C., 28:1356
Caputo, M. T. see Di Bello, V., 28:190
Cardinal, B. J., Esters, J., and Cardinal, M. K. Evaluation of the Revised Physical Activity Readiness Questionnaire in older adults, 28:468
Cardinal, M. K. see Cardinal, B. J., 28:468
Carey, M. F. see Febbraio, M. A., 28:1380
Carey, M. F. see Green, S., 28:315
Carrasco, D. I. see Sloniger, M. A., 28:72
Carre, F. see Billat, V., 28:1049
Carret, J.-P. see Freychat, P., 28:225
Casa, D. J. Book Review, 28:1531, 28:936
Casan, P. see Drobnic, F., 28:271
Cassell, C., Benedict, M., and Specker, B. Bone mineral density in elite 7- to 9-yr-old female gymnasts and swimmers, 28:1243
Castagno, P. W. see Richards, J. G., 28:913
Castells, J. see Busso, T., 28:444
Castro, M. J. see McCann, D. J., 28:934, 28:934
Cavanagh, P. R. see Lake, M. J., 28:860
Cerny, F. J. see Farkas, G. A., 28:1106
Chandler, W. L., Schwartz, R. S., Stratton, J. R., and Vitiello, M. V. Effects of endurance training on the circadian rhythm of fibrinolysis in men and women, 28:647
Chang, R.-T. see Ryan, A. J., 28:698
Charles, J. B. Lessons from operational cardiovascular studies in space, 28:S18
Chatard, J.-C. see Mujika, I., 28:1435, 28:251
Chen, C.-Y. see DiCarlo, S. E., 28:677
Chen, F. C. see Bates, B. T., 28:386
Chow, T. K. see Kronisch, R. L., 28:1351
Claessens, A. L., Lefevre, J., Beunen, G., De Smet, L., and Veer, A. M. Physique as a risk factor for ulnar variance in elite female gymnasts, 28:560
Clark, S. A. see Febbraio, M. A., 28:1380
Clarkson, P. M. see Nosaka, K., 28:953
Cohen, L. I., Hartford, C. G., and Rogers, G. G. Lipoprotein (a) and cholesterol in body builders using anabolic androgenic steroids, 28:176
Coleman, K. J. see Epstein, L. H., 28:1157, 28:428
Colin, D. see Desvaux, B., 28:836
Collette, H. J. A. see Pols, M. A., 28:1020
Collins, H. L. see DiCarlo, S. E., 28:677
Comer, D. A. M. see Maw, G. J., 28:1038
Connor, M. K. see Rezvani, M., 28:79
Convertino, V. A. Clinical aspects of the control of plasma volume at μG and during return to 1G, 28:S45
Convertino, V. A. Exercise as a countermeasure for physiological adaptation to prolonged spaceflight, 28:999
Cooper, T. R. see Craib, M. W., 28:737
Costill, D. L. see Starling, R. D., 28:1193
Cowan, D. N., Jones, B. H., Frykman, P. N., Polly, D. W., Jr., Harman, E. A., Rosenstein, R. M., and Rosenstein, M. T. Lower limb morphology and risk of overuse injury among male infantry trainees, 28:945
Craft, L. L. see Rankin, J. W., 28:1292
Craib, M. W., Mitchell, V. A., Fields, K. B., Cooper, T. R., Hopewell, R., and Morgan, D. W. The association between flexibility and running economy in sub-elite male distance runners, 28:737
Criswell, D. see Dodd, S. L., 28:669
Criswell, D. see Powers, S. K., 28:1115
Croft, J. B. see Brown, D. R., 28:233
Crouse, B., and Beattie, K. Marathon medical services: strategies to reduce runner morbidity, 28:1093
Crowe, A. J. see Foster, C., 28:752
Cucuzzo, N. see Gutin, B., 28:19
Cucuzzo, N. A. see Wilber, R. L., 28:1056
Cureton, K. J. see Sloniger, M. A., 28:72

D

Daines, E. see Foster, C., 28:752
Dasilva, S. G. see Utter, A. C., 28:280
Dauverchain, J. see Le Gallais, D., 28:541
Davis, P. G. see Durstine, J. L., 28:1277
Dawson, B. T. see Green, S., 28:315, 28:392
Dearwater, S. R. see Pereira, M. A., 28:931
de Groot, G. see van Ingen Schenau, G. J., 28:1305, 28:531
de Koning, J. J. see van Ingen Schenau, G. J., 28:1305, 28:531
Dempsey, J. A. see Johnson, B. D., 28:1129
Dempsey, J. A., Harms, C. A., and Ainsworth, D. M. Respiratory muscle perfusion and energetics during exercise, 28:1123
Denis, C. see Busso, T., 28:444
Denke, M. A. Lipids, estrogen status, and coronary heart disease risk in women, 28:13
Dennis, S. C. see Lindsay, F. H., 28:1427
Derom, C. see Maes, H. H. M., 28:1479
Derom, R. see Maes, H. H. M., 28:1479
De Smet, L. see Claessens, A. L., 28:560
DeSouza, C. A. see Hallmark, M. A., 28:139
Desvaux, B., Abraham, P., Colin, D., Leftheriotis, G., and Saumet, J. L. Ankle to arm index following maximal exercise in normal subjects and athletes, 28:836
Deuster, P. A. see Singh, A., 28:822
Di Bello, V., Santoro, G., Talarico, L., Di Muro, C., Caputo, M. T., Giorgi, D., Bertini, A., Bianchi, M., and Giusti, C. Left ventricular function during exercise in athletes in sedentary men, 28:190
DiCarlo, S. E., Chen, C.-Y., and Collins, H. L. Onset of exercise increases lumbar sympathetic nerve activity in rats, 28:677
DiFiori, J. P., and Mandelbaum, B. R. Wrist pain in a young gymnast: unusual radiographic findings and MRI evidence of growth plate injury, 28:1453
Di Muro, C. see Di Bello, V., 28:190
Dinarello, C. A. see Rall, L. C., 28:1356
DiPietro, L. The epidemiology of physical activity and physical function in older people, 28:596
Dishman, R. K. see Blair, S. N., 28:335
Dishman, R. K. see Dunn, A. L., 28:204
Dishman, R. K., and Buckworth, J. Increasing physical activity: a quantitative synthesis, 28:706
Dodd, S. L., Powers, S. K., Vrabas, I. S., Criswell, D., Stetson, S., and Hussain, R. Effects of clenbuterol on contractile and biochemical properties of skeletal muscle, 28:669
Dodd-O, J. M., and Gwirtz, P. A. Coronary α_1-adrenergic constrictor tone varies with intensity of exercise, 28:62
Donald, R. A. see Wittert, G. A., 28:1015
Dotson, C. O. see Hallmark, M. A., 28:139
Doubt, T. J. Cardiovascular and thermal responses to SCUBA diving, 28:581
Dowda, M. see Pate, R. R., 28:92
Dowling, E. A., Redondo, D. R., Branch, J. D., Jones, S., McNabb, G., and

Williams, M. H. Effect of *Eleutherococcus senticosus* on submaximal and maximal exercise performance, 28:462
Dowling, J. J. see Unnithan, V. B., 28:1498
Drinkwater, B. L. see Blair, S. N., 28:335
Drinkwater, D. T. see Ready, A. E., 28:1097
Driscoll, T. see Alfrey, C. P., 28:S42
Drobnic, F., Freixa, A., Casan, P., Sanchis, J., and Guardino, X. Assessment of chlorine exposure in swimmers during training, 28:271
Drummer, C. see Gerzer, R., 28:S32
Dubouchaud, H. see Ahmaidi, S., 28:450
Dubouchaud, H. see Granier, P. L., 28:692
Ducas, J. see Ready, A. E., 28:1097
Duey, W. J. see Williford, H. N., 28:926
Dufek, J. S. see Bates, B. T., 28:386
Duly, E. see MacAuley, D., 28:720
Dumit, M. see Foster, C., 28:752
Duncan, G. E. see Bassett, D. R., Jr., 28:1071
Dunn, A. L., Reigle, T. G., Youngstedt, S. D., Armstrong, R. B., and Dishman, R. K. Brain norepinephrine and metabolites after treadmill training and wheel running in rats, 28:204
Durante, R., and Ainsworth, B. E. The Recall of Physical Activity: Using a Cognitive Model of the Question-Answering Process, 28:1282
Durstine, J. L., Ferguson, M. A., Szymanski, L. M., Davis, P. G., Alderson, N. L., Trost, S. G., and Pate, R. R. Effect of a single session of exercise on lipoprotein(a), 28:1277
Dwyer, G. B. Book Review, 28:155

E

Eberstein, A., and Eberstein, S. Electrical stimulation of denervated muscle: is it worthwhile?, 28:1463
Eberstein, S. see Eberstein, A., 28:1463
Ebert, T. J. see Williamson, J. W., 28:815
Eckerson, J. M. see Housh, T. J., 28:1331, 28:610
Eckerson, J. M., Stout, J. R., Housh, T. J., and Johnson, G. O. Validity of bioelectrical impedance equations for estimating percent fat in males, 28:523
Edgerton, R. Critical discussion of integrated physiology of μG, 28:S107
Edgerton, V. R. see Baldwin, K. M., 28:1247
Edgerton, V. R., Wolf, S. L., Levendowski, D. J., and Roy, R. R. Theoretical basis for patterning EMG amplitudes to assess muscle dysfunction, 28:744
Edsgren, R. see Branth, S., 28:1272
Ehlinger, S. see Sallis, J. F., 28:840
Eisenberg, H. A. see Rezvani, M., 28:79
Elliott, R. see Vanderburgh, P. M., 28:626
England, S. L., and Raven, P. B. Editorial: An interpretation of copyright law, 28:401
England, S. L., and Raven, P. B. Editorial: *MSSE* review on the Internet, 28:775
Engsberg, J. R. A new method for quantifying pronation in overpronating and normal runners, 28:299
Epstein, L. H., Coleman, K. J., and Myers, M. D. Exercise in treating obesity in children and adolescents, 28:428
Epstein, L. H., Paluch, R. A., Coleman, K. J., Vito, D., and Anderson, K. Determinants of physical activity in obese children assessed by accelerometer and self-report, 28:1157
Erkintalo, M. see Kujala, U. M., 28:165
Erti, A. see Robertson, D., 28:S80
Escobedo, L. G. see Brown, D. R., 28:233
Eßeld, D., and Baum, K. Influence of gravity on cardiovascular reflexes from skeletal muscle receptors, 28:S23
Espiner, E. A. see Wittert, G. A., 28:1015
Esters, J. see Cardinal, B. J., 28:468
Ettinger, W. H. see Berry, M. J., 28:808
Evans, A. E. see MacAuley, D., 28:720
Evans, W. J. see Hagerman, F. C., 28:1150

F

Fagard, R. see Pardaens, K., 28:794
Farkas, G. A., Cerny, F. J., and Rochester, D. F. The contractility of the ventilatory pump muscles, 28:1106
Febbraio, M. A., Murton, P., Selig, S. E., Clark, S. A., Lambert, D. L., Angus, D. J., and Carey, M. F. Effect of CHO ingestion on exercise metabolism and performance in different ambient temperatures, 28:1380
Feigenbaum, M. S. see Starkey, D. B., 28:1311
Feldman, H. A. see Sallis, J. F., 28:840
Feng, Y. see Wretenberg, P., 28:218
Ferguson, M. A. see Durstine, J. L., 28:1277
Fernhall, B., Pitetti, K. H., Rimmer, J. H., McCubbin, J. A., Rintala, P., Millar, A. L., Kittredge, J., and Burkett, L. N. Cardiorespiratory capacity of individuals with mental retardation including Down syndrome, 28:366
Fiatarone, M. A. see Hagerman, F. C., 28:1150
Fiatarone, M. A. see Thomas, M., 28:1321
Fielding, R. A. see Hagerman, F. C., 28:1150
Fielding, R. A. see Thomas, M., 28:1321
Fields, K. B. see Craib, M. W., 28:737
Fink, W. J. see Starling, R. D., 28:1193
Fisher, N. M. see Pendergast, D. R., 28:573
Fitton, T. R. see Turner, M. J., 28:921
Fitzgerald, S. J. see Pereira, M. A., 28:931
Fitzgerals, S. J. see Pereira, M. A., 28:931
Fletcher, B. J. see Lee, J. Y., 28:47
Fletcher, G. F. see Lee, J. Y., 28:47
Fogelholm, M., Van Marken Lichtenbelt, W., Ottenheijm, R., and Westerterp, K. Amenorrhea in ballet dancers in the Netherlands, 28:545
Fomina, G. see Arbeille, P., 28:S70
Forslund, A. H. see Sjödin, A. M., 28:85
Forslund, J. M. see Sjödin, A. M., 28:85
Foster, C., Crowe, A. J., Daines, E., Dumit, M., Green, M. A., Lettau, S., Thompson, N. N., and Weymier, J. Predicting functional capacity during treadmill testing independent of exercise protocol, 28:752
Frankowski, R. F. see Kohl, H. W., III, 28:601
Fraser, G. E. see Singh, P. N., 28:1026
Freedman, M. Postmenopausal hormone replacement therapy and cardiovascular disease risk, 28:17
Freedson, P. S. see Melanson, E. L., 28:1422, 28:247
Freixa, A. see Drobnic, F., 28:271
Freund, H. see Lampert, E., 28:801
Frey, M. A. B. Space research activities during missions of the past, 28:S3
Freychat, P., Belli, A., Carret, J.-P., and Lacour, J.-R. Relationship between rearfoot and forefoot orientation and ground reaction forces during running, 28:225
Friedl, K. E. see Nindl, B. C., 28:786
Frost, G. see Unnithan, V. B., 28:1498
Frykman, P. N. see Cowan, D. N., 28:945
Fukunaga, T. see Abe, T., 28:908
Fulton, J. A. see Boas, S. R., 28:291

G

Gaesser, G. A. see Stoudemire, N. M., 28:490
Gaesser, G. A. see Wideman, L., 28:509
Gagnon, J. see Väisänen, S., 28:1165
Gagnon, J. see Wilmore, J. H., 28:829
Gallagher, K. M. see Shi, X., 28:1388
Gardiner, R. L. see Koltyn, K. F., 28:1418
Gardner, J. W., Kark, J. A., Karnei, K., Sanborn, J. S., Gastaldo, E., Burr, P., and Wenger, C. B. Risk factors predicting exertional heat illness in male Marine Corps recruits, 28:939
Garvin, A. W. see Koltyn, K. F., 28:1418
Gastaldo, E. see Gardner, J. W., 28:939
Gault, J. A. see Hagerman, F. C., 28:1150
Gauquelin, G. see Maillet, A., 28:S53
Gerritsen, K. G. M. see Bobbert, M. F., 28:1402
Gerzer, R., Heer, M., and Drummer, C. Body fluid metabolism at actual and simulated microgravity, 28:S32
Geyssant, A. see Busso, T., 28:444
Geyssant, A. see Mujika, I., 28:1435, 28:251
Gharib, C. see Maillet, A., 28:S53
Giorgi, D. see Di Bello, V., 28:190
Gisolfi, C. V. see Ryan, A. J., 28:698
Giusti, C. see Di Bello, V., 28:190
Gold, P. W. see Singh, A., 28:822
Goldfarb, A. H. Book Review, 28:275
Gomez, J. E. Bilateral anterior inferior iliac spine avulsion fractures, 28:161
Goodman, C. see Green, S., 28:315
Görnandt, L. see Meyer, K., 28:1081
Goss, F. L. see Utter, A. C., 28:280
Granier, P. see Ahmaidi, S., 28:450
Granier, P. L., Dubouchaud, H., Mercier, B. M., Mercier, J. G., Ahmaidi, S., and Préfaut, C. G. Effect of $NaHCO_3$ on lactate kinetics in forearm muscles during leg exercise in man, 28:692
Graves, J. E. see Starkey, D. B., 28:1311
Green, M. A. see Foster, C., 28:752
Green, S. see Barnett, C., 28:1505
Green, S., and Dawson, B. T. Methodological effects on the $\dot{V}O_2$-power regression and the accumulated O_2 deficit, 28:392

Green, S., Dawson, B. T., Goodman, C., and Carey, M. F. Anaerobic ATP production and accumulated O_2 deficit in cyclists, 28:315
Greenleaf, J. E. see Tipton, C. M., 28:988
Growney, E. S. see Malanga, G. A., 28:661
Guardino, X. see Drobnic, F., 28:271
Guion, W. K. see McMurray, R. G., 28:41
Gustafsson, F., Ali, S., Hanel, B., Toft, J. C., and Secher, N. H. The heart of the senior oarsman: an echocardiographic evaluation, 28:1045
Gutgesell, M. E., Timmerman, M., and Keller, A. Reported alcohol use and behavior in long-distance runners, 28:1063
Gutin, B., Cucuzzo, N., Islam, S., Smith, C., and Stachura, M. E. Physical training, lifestyle education, and coronary risk factors in obese girls, 28:19
Gwirtz, P. A. see Dodd-O, J. M., 28:62

H

Hackney, A. C. see McMurray, R. G., 28:41
Hackney, A. C. Book Review, 28:536
Hackney, A. C. The male reproductive system and endurance exercise, 28:180
Hagerman, F. C., Fielding, R. A., Fiatarone, M. A., Gault, J. A., Kirkendall, D. T., Ragg, K. E., and Evans, W. J. A 20-yr longitudinal study of Olympic oarsmen, 28:1150
Halle, M., Berg, A., von Stein, T., Baumstark, M. W., König, D., and Keul, J. Lipoprotein (a) in endurance athletes, power athletes, and sedentary controls, 28:962
Hallmark, M. A., Reynolds, T. H., DeSouza, C. A., Dotson, C. O., Anderson, R. A., and Rogers, M. A. Effects of chromium and resistive training on muscle strength and body composition, 28:139
Hambræus, L. see Branth, S., 28:1272
Hambræus, L. M. see Sjödin, A. M., 28:85
Hamilton, D. R. see Tyberg, J. V., 28:S29
Hanel, B. see Gustafsson, F., 28:1045
Hanson, P. see Rueckert, P. A., 28:24
Hardman, A. E. see Tsetsonis, N. V., 28:1235
Hargens, A. see Tipton, C. M., 28:974
Hargens, A. R. Critical discussion of research issues in body fluid metabolism and control of intravascular volume, 28:S56
Hargens, A. R., and Watenpaugh, D. E. Cardiovascular adaptation to spaceflight, 28:977
Hargreaves, M. see McConell, G., 28:1300
Harman, E. A. see Cowan, D. N., 28:945
Harmon, E. A. see Knapik, J. J., 28:1523
Harms, C. A. see Dempsey, J. A., 28:1123
Harms, C. A. see Raglin, J. S., 28:372
Harsha, D. M. see Swain, R., 28:1459
Harsha, D. W. see Sallis, J. F., 28:840
Hartford, C. G. see Cohen, L. I., 28:176
Hawley, J. A. see Lindsay, F. H., 28:1427
Haymes, E. M. see Waller, M. F., 28:197
Heck, H. see Beneke, R., 28:1474
Heck, R. W., McKeever, K. H., Alway, S. E., Auge, W. K., Whitehead, R., Bertone, A. L., and Lombardo, J. A. Resistance training-induced increases in muscle mass and performance in ponies, 28:877
Heer, M. see Gerzer, R., 28:S32
Heigenhauser, G. J. F. Book Review, 28:275
Heinrichs, K. Book Review, 28:156
Hicks, R. W. see Pepin, E. B., 28:656
Hill, D. W., and Rowell, A. L. Running velocity at $\dot{V}O_{2max}$, 28:114
Hirai, Y. see Tabata, I., 28:1327
Hirano, Y., and Tada, N. Numerical simulation of a turning alpine ski during recreational skiing, 28:1209
Hollander, A. P. see Janssen, T. W. J., 28:551
Hood, D. A. see Rezvani, M., 28:79
Hooper, S. L. see Mackinnon, L. T., 28:285
Hopewell, R. see Craib, M. W., 28:737
Horton, E. see Blair, S. N., 28:335
Housh, D. J. see Housh, T. J., 28:1331, 28:610
Housh, T. J. see Eckerson, J. M., 28:523
Housh, T. J., Johnson, G. O., Housh, D. J., Eckerson, J. M., and Stout, J. R. Validity of skinfold estimates of percent fat in high school female gymnasts, 28:1331
Housh, T. J., Johnson, G. O., Housh, D. J., Weir, J. P., Weir, L. L., Eckerson, J. M., and Stout, J. R. Age, fat-free weight, and isokinetic peak torque in high school female gymnasts, 28:610
Hubinger, L., and Mackinnon, L. T. The effect of endurance training on lipoprotein (a) Lp (a) levels in middle-aged males, 28:757
Hughson, R. L. see Shoemaker, J. K., 28:1144
Hunter, D. C. see Bassett, D. R., Jr., 28:1071
Hunter, G. R. see Treuth, M. S., 28:1138
Huntoon, C. L. see Alfrey, C. P., 28:S42
Hussain, R. see Dodd, S. L., 28:669
Hussain, S. N. A. see Kosmas, E. N., 28:1254

I

Irmer, M. see Schmid, A., 28:1470
Ishida, Y. see Starkey, D. B., 28:1311
Islam, S. see Gutin, B., 28:19

J

Jackson, A. S., Wier, L. T., Ayers, G. W., Beard, E. F., Stuteville, J. E., and Blair, S. N. Changes in aerobic power of women, ages 20–64 years, 28:884
Jackson, C. G. R. see Pepin, E. B., 28:656
Jackson, C. G. R. see Tipton, C. M., 28:988
Jacob, G. see Robertson, D., 28:S80
Jakob, E. see Schmid, A., 28:1470
James, C. R. see Osternig, L. R., 28:1229
James, N. see Wilson, A. F., 28:436
Jan, J. see Billat, V., 28:1049
Janssen, T. W. J., van Oers, C. A. J. M., Rozendaal, E. E. P., Willemsen, E. M., Hollander, A. P., and van der Woude, L. H. V. Changes in physical strain and physical capacity in men with spinal cord injuries, 28:551
Jenkins, D. see Barnett, C., 28:1505
Jenp, Y.-N. see Malanga, G. A., 28:661
Jensen, B. E. see Lee, J. Y., 28:47
Jeong, J.-W. see Bulbulian, R., 28:1336
Jeukendrup, A., Saris, W. H. M., Brouns, F., and Kester, A. D. M. A new validated endurance performance test, 28:266
Johnson, B. D., Aaron, E. A., Babcock, M. A., and Dempsey, J. A. Respiratory muscle fatigue during exercise: implications for performance, 28:1129
Johnson, G. O. see Eckerson, J. M., 28:523
Johnson, G. O. see Housh, T. J., 28:1331, 28:610
Johnson, P. C., Wagner, P. D., and Wilson, D. F. Regulation of oxidative metabolism and blood flow in skeletal muscle: summary report of the First ACSM Basic Science Speciality Conference, 28:305
Johnston, C. C. see Teegarden, D., 28:105
Jones, B. H. see Cowan, D. N., 28:945
Jones, S. see Dowling, E. A., 28:482
Joswiak, M. L. see Boas, S. R., 28:291
Joyner, M. J. see Proctor, D. N., 28:892
Jozsi, A. C. see Starling, R. D., 28:1193
Jungbluth, S. see Melanson, E. L., 28:1422, 28:247
Jürimäe, J. see Abernethy, P. J., 28:1180

K

Kaplan, T. A. Book Review, 28:399
Kaprio, J. see Kujala, U. M., 28:165
Kark, J. A. see Gardner, J. W., 28:939
Karnei, K. see Gardner, J. W., 28:939
Katch, F. see Vanderburgh, P. M., 28:1204
Katch, F. I. see Vanderburgh, P. M., 28:626
Kate, V. L. see McMurray, R. G., 28:41
Kawakami, Y. see Abe, T., 28:908
Keller, A. see Gutgesell, M. E., 28:1063
Kellis, E., and Baltzopoulos, V. Gravitational moment correction in isokinetic dynamometry using anthropometric data, 28:900
Kelly, T. M. Exercise testing and training of patients with malignant ventricular arrhythmias, 28:53
Kemper, H. C. G. see Pols, M. A., 28:1020
Kemper, H. C. G. see Van Mechelen, W., 28:1171
Kern, M. see Teegarden, D., 28:105
Kester, A. D. M. see Jeukendrup, A., 28:266
Keul, J. see Halle, M., 28:962
Keul, J. see Schmid, A., 28:1470
Kienholz, M. L. see Blair, S. N., 28:335
Kim, A. W. see Buchanan, T. S., 28:870
Kirby, B. J. see Welsman, J. R., 28:259
Kirkendall, D. T. see Hagerman, F. C., 28:1150
Kittredge, J. see Fernhall, B., 28:366
Kloot, K. see McConell, G., 28:1300
Knapik, J. J., Staab, J. S., and Harmon, E. A. Validity of an anthropometric estimate of thigh muscle cross-sectional area, 28:1523
Koceja, D. M. see Raglin, J. S., 28:372
Kohl, H. W. see Pereira, M. A., 28:931

Kohl, H. W., III see Oliveria, S. A., 28:97
Kohl, H. W., III, Nichaman, M. Z., Frankowski, R. F., and Blair, S. N. Maximal exercise hemodynamics and risk of mortality in apparently healthy men and women, 28:601
Koivisto, V. A. see Turpeinen, A. K., 28:33
Kolettis, G. J. see Theodore, G. H., 28:277
Koltyn, K. F., Garvin, A. W., Gardiner, R. L., and Nelson, T. F. Perception of pain following aerobic exercise, 28:1418
König, D. see Halle, M., 28:962
König, D. see Schmid, A., 28:1470
Kosmas, E. N., Hussain, S. N. A., Montserrat, J. M., and Levy, R. D. Relationship of peak exercise capacity with indices of peripheral muscle vasodilation, 28:1254
Kouzaki, M. see Tabata, I., 28:1327
Kozlowski, N. see Melanson, E. L., 28:247
Kraemer, W. J. see Baldwin, K. M., 28:1247
Kram, R. see Baldwin, K. M., 28:1247
Kramer, J. F. see Porter, M. M., 28:516
Kramer, M. M., and Wells, C. L. Does physical activity reduce risk of estrogen-dependent cancer in women?, 28:322
Kranenburg, K. J., and Smith, D. J. Comparison of critical speed determined from track running and treadmill tests in elite runners, 28:614
Kriska, A. M. see Utter, A. C., 28:280
Kronisch, R. L., Pfeiffer, R. P., and Chow, T. K. Acute injuries in cross country and downhill off-road racing, 28:1351
Kuikka, J. T. see Turpeinen, A. K., 28:33
Kujala, U. M., Taimela, S., Erkintalo, M., Salminen, J. J., and Kaprio, J. Low-back pain in adolescent athletes, 28:165
Kunkel, C. F. see Barstow, T. J., 28:1221

L

Lacoste, L. see Mujika, I., 28:1435, 28:251
Lacour, J.-R. see Busso, T., 28:444
Lacour, J.-R. see Freychat, P., 28:225
Lake, M. J., and Cavanagh, P. R. Six weeks of training does not change running mechanics or improve running economy, 28:860
Lambert, D. L. see Febbraio, M. A., 28:1380
Lampert, E., Oyono-Enguéllé, S., Mettauer, B., Freund, H., and Lonsdorfer, J. Short endurance training improves lactate removal ability in patients with heart transplants, 28:801
Laporte, R. E. see Pereira, M. A., 28:931, 28:931
Larson, D. E. Book Review, 28:276
Lasley, B. I. L. see Winters, K. M., 28:776
Lawrence, J. Book Review, 28:772
Lee, D. T. see Wilber, R. L., 28:1056
Lee, I.-M. see Blair, S. N., 28:335
Lee, J. Y., Jensen, B. E., Oberman, A., Fletcher, G. F., Fletcher, B. J., and Raczynski, J. M. Adherence in the Training Levels Comparison Trial, 28:47
Lefevre, J. see Claessens, A. L., 28:560
Leftheriotis, G. see Desvaux, B., 28:836
Le Gallais, D., Bilé, A., Mercier, J., Paschel, M., Tonellot, J. L., and Dauverchain, J. Exercise-induced death in sickle cell trait: role of aging, training, and deconditioning, 28:541
Leggett, S. R. see Bassett, D. R., Jr., 28:1071
Lehmann, M. see Meyer, K., 28:1081
Leig, J. see Siconolfi, S. F., 28:1510
Leiper, J. B. see Shirreffs, S. M., 28:1260
Leithäuser, R. see Beneke, R., 28:1474
LeMura, L. M. Book Review, 28:936
Leon, A. S. see Blair, S. N., 28:335
Leon, A. S. see Wilmore, J. H., 28:829
Lettau, S. see Foster, C., 28:752
Levendowski, D. J. see Edgerton, V. R., 28:744
Levine, B. D. Critical discussion of research issues in mechanisms of cardiovascular adaptation to actual and simulated μG, 28:S90
Levy, R. D. see Kosmas, E. N., 28:1254
Lightfoot, J. T., Tuller, B., and Williams, D. F. Ambient noise interferes with auscultatory blood pressure measurement during exercise, 28:501
Lillis, D. L. see Rueckert, P. A., 28:24
Lindsay, F. H., Hawley, J. A., Myburgh, K. H., Schomer, H. H., Noakes, T. D., and Dennis, S. C. Improved athletic performance in highly trained cyclists after interval training, 28:1427
Linnarsson, D. Pulmonary function and cardiopulmonary interactions at microgravity, 28:S14
Litjens, M. C. A. see Bobbert, M. F., 28:1402
Litmanen, H. see Turpeinen, A. K., 28:33
Livesey, J. H. see Wittert, G. A., 28:1015
Lloyd, D. G. see Buchanan, T. S., 28:870
Loan, M. D. V. see Winters, K. M., 28:776
Lombardo, J. A. see Heck, R. W., 28:877
Lonsdorfer, J. see Lampert, E., 28:801
Lyle, R. M. see Teegarden, D., 28:105
Lynch, P. R. Historical and basic perspectives of SCUBA diving, 28:570
Lysens, R. see Maes, H. H. M., 28:1479

M

MacAuley, D., McCrum, E. E., Stott, G., Evans, A. E., Duly, E., Trinick, T. R., Sweeney, K., and Boreham, C. A. G. Physical activity, lipids, apolipoproteins, and Lp (a) in the Northern Ireland Health and Activity Survey, 28:720
MacKenzie, I. L. see Maw, G. J., 28:1038
Mackey, M. see Blair, S. N., 28:335
MacKinnon, L. see Barnett, C., 28:1505
Mackinnon, L. T. see Hubinger, L., 28:757
Mackinnon, L. T., and Hooper, S. L. Plasma glutamine and upper respiratory tract infection during intensified training in swimmers, 28:285
Maes, H. H. M., Beunen, G. P., Vlietinck, R. F., Neale, M. C., Thomis, M., Vanden Eynde, B., Lysens, R., Simons, J., Derom, C., and Derom, R. Inheritance of physical fitness in 10-year-old twins and their parents, 28:1479
Magnes, S. A. Book Review, 28:1215
Maillet, A., Gauquelin, G., and Gharib, C. Cardiovascular and hormonal changes induced by isolation and confinement, 28:S53
Main, J. A. see Bassett, D. R., Jr., 28:1071
Malanga, G. A., Jenp, Y.-N., Growney, E. S., and An, K.-N. EMG analysis of shoulder positioning in testing and strengthening the supraspinatus, 28:661
Mandelbaum, B. R. see DiFiori, J. P., 28:1453
Mano, T. Adrenergic vascular control, 28:S85
Marchitelli, L. J. see Nindl, B. C., 28:786
Maron, B. J. Book Review, 28:1342
Massey, B. H. see Bemben, M. G., 28:145
Mathien, C. A. see Bassett, D. R., Jr., 28:1071
Maughan, R. J. see Shirreffs, S. M., 28:1260
Maw, G. J., MacKenzie, I. L., Corner, D. A. M., and Taylor, N. A. S. Whole-body hyperhydration in endurance-trained males determined using radionuclide dilution, 28:1038
Maxwell, T. see Tis, L. L., 28:1188
McCann, D. J., Castro, M. J., and Shaffrath, J. D. Letter to the Editor-in-Chief, 28:934
McCann, D. J., Castro, M. J., Shaffrath, J. D., and Adams, W. C. Response, 28:934
McCarthy, J. R. see Rundell, K. W., 28:1413
McConell, G., Kloot, K., and Hargreaves, M. Effect of timing of carbohydrate ingestion on endurance exercise performance, 28:1300
McConnell, A. K., and Semple, E. S. G. Ventilatory sensitivity to carbon dioxide: the influence of exercise and athleticism, 28:685
McCrum, E. E. see MacAuley, D., 28:720
McCubbin, J. A. see Fernhall, B., 28:366
McCulloch, R. G. Book Review, 28:155
McGinnes, C. L. see Stoudemire, N. M., 28:490
McGinnes, C. L. see Wideman, L., 28:509
McKeever, K. H. see Heck, R. W., 28:877
McMurray, R. G. Book Review, 28:1443, 28:1443, 28:1531
McMurray, R. G., Hackney, A. C., Guion, W. K., and Kate, V. L. Metabolic and hormonal responses to low-impact aerobic dance during pregnancy, 28:41
McNabb, G. see Dowling, E. A., 28:482
Meester, H. see Van Ingen Schenau, G. J., 28:531
Melanson, E. L., Freedson, P. S., and Jungbluth, S. Changes in VO_{2max} and maximal treadmill time after 9 wk of running or in-line skate training, 28:1422
Melanson, E. L., Freedson, P. S., Webb, R., Jungbluth, S., and Kozlowski, N. Exercise responses to running and in-line skating at self-selected paces, 28:247
Mercier, B. M. see Granier, P. L., 28:692
Mercier, J. see Ahmaidi, S., 28:450
Mercier, J. see Le Gallais, D., 28:541
Mercier, J., Ville, N., Wintrebert, P., Caillaud, C., Varray, A., Albat, B., Thévenet, A., and Préfaut, C. Influence of post-surgery time after cardiac transplantation on exercise responses, 28:171
Mercier, J. G. see Granier, P. L., 28:692

Meredith, C. N. see Winters, K. M., 28: 776
Mettauer, B. see Lampert, E., 28:801
Meydani, N. see Rall, L. C., 28:1356
Meyer, K., Stengele, E., Westbrook, S., Beneke, R., Schwaibold, M., Görnandt, L., Lehmann, M., and Roskamm, H. Influence of different exercise protocols on functional capacity and symptoms in patients with chronic heart failure, 28:1081
Michell, L. J. see Theodore, G. H., 28:277
Millar, A. L. see Fernhall, B., 28:366
Miller, H. S. see Berry, M. J., 28:808
Misner, J. E. see Bemben, M. G., 28:145
Mitchell, D. see Thomas, N. G., 28:473
Mitchell, J. H., and Victor, R. G. Neural control of the cardiovascular system: insights from muscle sympathetic nerve recordings in humans, 28:S60
Mitchell, V. A. see Craib, M. W., 28:737
Miyachi, M. see Tabata, I., 28:1327
Moffatt, R. J. see Wilber, R. L., 28:1056
Molendijk, A. see Van Mechelen, W., 28: 1171
Mondin, G. W., Morgan, W. P., Piering, P. N., Stegner, A. J., Stotesbery, C. L., Trine, M. R., and Wu, M.-Y. Psychological consequences of exercise deprivation in habitual exercisers, 28:1199
Montserrat, J. M. see Kosmas, E. N., 28: 1254
Moore, A. D., Jr. see Siconolfi, S. F., 28: 1510
Morgan, D. W. see Craib, M. W., 28:737
Morgan, T. M. see Reboussin, D. M., 28: 639
Morgan, W. P. see Mondin, G. W., 28: 1199
Moritani, T. see Takaishi, T., 28:1492
Mosqueda-Garcia, R. see Robertson, D., 28:S80
Mujika, I., Busso, T., Lacoste, L., Barale, F., Geyssant, A., and Chatard, J.-C. Modeled responses to training and taper in competitive swimmers, 28:251
Mujika, I., Chatard, J.-C., Lacoste, L., Barale, F., and Geyssant, A. Creatine supplementation does not improve spring performance in competitive swimmers, 28: 1435
Mukai, D. see Wilson, A. F., 28:436
Murphy, M. see Bulbulian, R., 28:1336
Murton, P. see Febbraio, M. A., 28:1380
Mustelin, M. see Branth, S., 28:1272
Mutton, D. L. see Barstow, T. J., 28:1221
Muzi, M. see Williamson, J. W., 28:815
Myburgh, K. H. see Lindsay, F. H., 28: 1427
Myers, L., Strikmiller, P. K., Webber, L. S., and Berenson, G. S. Physical and sedentary activity in school children grades 5–8: the Bogalusa Heart Study, 28:852
Myers, M. D. see Epstein, L. H., 28:428

N

Naimark, B. see Ready, A. E., 28:1097
Nawrocki, D. M. see Pendergast, D. R., 28:573
Neale, M. C. see Maes, H. H. M., 28:1479
Neeves, R. E. see Richards, J. G., 28:913
Nelson, T. F. see Koltyn, K. F., 28:1418
Nevill, A. M. see Welsman, J. R., 28:259
Nichaman, M. Z. see Kohl, H. W., III, 28: 601
Nickleberry, B. L., Jr., and Brooks, G. A. No effect of cycling experience on leg cycle ergometer efficiency, 28:1396
Nielsen, B. Olympics in Atlanta: a fight against physics, 28:665
Nilsson, R. see Branth, S., 28:1272
Nindl, B. C., Friedl, K. E., Marchitelli, L. J., Shippee, R. L., Thomas, C. D., and Patton, J. F. Regional fat placement in physically fit males and changes with weight loss, 28:786
Nishimura, E. see Wilson, A. F., 28:436
Nishimura, K. see Tabata, I., 28:1327
Nixon, P. A. see Boas, S. R., 28:291
Nixon, P. A. Role of exercise in the evaluation and management of pulmonary disease in children and youth, 28:414
Noakes, T. D. see Lindsay, F. H., 28:1427
Norsk, P. Role of arginine vasopressin in the regulation of extracellular fluid volume, 28:S36
Nosaka, K., and Clarkson, P. M. Changes in indicators of inflammation after eccentric exercise of the elbow flexors, 28:953
Noventa, D. see Piccoli, A., 28:1517
Nusynowitz, M. L. see Siconolfi, S. F., 28:1510

O

Oberman, A. see Lee, J. Y., 28:47
O'Brien, S. J. see Callaway, G. H., 28: 1218
Ocel, J. V. see Rankin, J. W., 28:1292
Ogita, F. see Tabata, I., 28:1327
Oldridge, N. Obituary: John R. Sutton, 28:538
O'Leary, D. S. Heart rate control during exercise by baroreceptors and skeletal muscle afferents, 28:210
Oliveria, S. A., Kohl, H. W., III, Trichopoulos, D., and Blair, S. N. The association between cardiorespiratory fitness and prostate cancer, 28:97
Ono, T. see Takaishi, T., 28:1492
Oosterveen, S. see Ready, A. E., 28:1097
Orenstein, D. M. see Boas, S. R., 28:291
Ornatsky, O. I. see Rezvani, M., 28:79
Osternig, L. R., James, C. R., and Bercades, D. T. Eccentric knee flexor torque following anterior cruciate ligament surgery, 28:1229
O'Toole, M. L. see Berry, M. J., 28:808
Ottenheijm, R. see Fogelholm, M., 28:545
Oyono-Enguéllé, S. see Lampert, E., 28: 801

P

Paluch, R. A. see Epstein, L. H., 28:1157
Pardaens, K., Reybrouck, T., Thijs, L., and Fagard, R. Prognostic significance of peak oxygen uptake in hypertension, 28: 794
Paschel, M. see Le Gallais, D., 28:541
Pass, K. A. see Stoudemire, N. M., 28:490
Pass, K. A. see Wideman, L., 28:509
Pate, R. R. see Durstine, J. L., 28:1277
Pate, R. R., Baranowski, T., Dowda, M., and Trost, S. G. Tracking of physical activity in young children, 28:92
Patton, J. F. see Nindl, B. C., 28:786
Peeters, P. H. M. see Pols, M. A., 28:1020
Pendergast, D. R., Tedesco, M., Nawrocki, D. M., and Fisher, N. M. Energetics of underwater swimming with SCUBA, 28:573
Pepin, E. B., Hicks, R. W., Spencer, M. K., Tran, Z. V., and Jackson, C. G. R. Pressor response to isometric exercise in patients with multiple sclerosis, 28:656
Percher, M. see Arbeille, P., 28:S70
Pereira, M. A., Laporte, R. E., Fitzgerald, S. J., Aaron, D. J., Kohl, H. W., and Dearwater, S. R. Letter to the Editor-in-Chief, 28:931
Pereira, M. A., Laporte, R. E., Fitzgerals, S. J., and Aaron, D. J. Letter to the Editor-in-Chief, 28:931
Petelin von Duvillard, S. see Beneke, R., 28:241
Petrides, J. S. see Singh, A., 28:822
Pettier, J. M. see Arbeille, P., 28:S70
Pfeiffer, R. P. see Kronisch, R. L., 28:1351
Piazza, P. see Piccoli, A., 28:1517
Piccoli, A., Piazza, P., Noventa, D., Pillon, L., and Zaccaria, M. A new method for monitoring hydration at high altitude by bioimpedance analysis, 28:1517
Piering, P. N. see Mondin, G. W., 28:1199
Pillon, L. see Piccoli, A., 28:1517
Pitetti, K. H. see Fernhall, B., 28:366
Pitetti, K. H. see Rimmer, J. H., 28:1366
Pollock, M. L. see Starkey, D. B., 28:1311
Polly, D. W., Jr. see Cowan, D. N., 28:945
Pols, M. A., Peeters, P. H. M., Kemper, H. C. G., and Collette, H. J. A. Repeatability and relative validity of two physical activity questionnaires in elderly women, 28:1020
Porter, M. M., Vandervoort, A. A., and Kramer, J. F. A method of measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
Potts, S. A. see Sonstroem, R. J., 28:619
Powers, S. K. see Dodd, S. L., 28:669
Powers, S. K., and Criswell, D. Adaptive strategies of respiratory muscles in response to endurance exercise, 28:1115
Pozeg, Z. I. see Shoemaker, J. K., 28:1144
Prefaut, C. see Ahmaidi, S., 28:450
Préfaut, C. see Mercier, J., 28:171
Préfaut, C. G. see Granier, P. L., 28:692
Prior, B. M. see Sloniger, M. A., 28:72
Proctor, D. N., Sinning, W. E., Bredle, D. L., and Joyner, M. J. Cardiovascular and peak VO_2 responses to supine exercise: effects of age and training status, 28:892
Proulx, W. R. see Teegarden, D., 28:105
Pusateri, J. P. see Utter, A. C., 28:280

Q

Quigley, E. J. see Richards, J. G., 28:913

R

Raab-Cullen, D. see Baldwin, K. M., 28: 1247
Raczynski, J. M. see Lee, J. Y., 28:47
Ragg, K. E. see Hagerman, F. C., 28:1150
Raglin, J. S. see Turner, P. E., 28:378

Raglin, J. S., Koceja, D. M., Stager, J. M., and Harms, C. A. Mood, neuromuscular function, and performance during training in female swimmers, 28:372
Rall, L. C., Roubenoff, R., Cannon, J. G., Abad, L. W., Dinarello, C. A., and Meydani, N. Effects of progressive resistance training on immune response in aging and chronic inflammation, 28:1356
Rankin, J. W., Ocel, J. V., and Craft, L. L. Effect of weight loss and refeeding diet composition on anaerobic performance in wrestlers, 28:1292
Rankinen, T. see Väisänen, S., 28:1165
Rao, D. C. see Wilmore, J. H., 28:829
Rarick, G. L. Memorial Statement, 28:645
Rauramaa, R. see Väisänen, S., 28:1165
Raven, P. B. see England, S. L., 28:401, 28:775
Raven, P. B. see Shi, X., 28:1388
Raven, P. B. Editorial: A global perspective, 28:1
Raven, P. B. New submission requirements for authors, 28:932
Raven, P. B. Response, 28:932
Raybourne, R. B. see Singh, A., 28:822
Ready, A. E., Naimark, B., Ducas, J., Sawatzky, J.-A. V., Boreskie, S. L., Drinkwater, D. T., and Oosterveen, S. Influence of walking volume on health benefits in women post-menopause, 28:1097
Reboussin, D. M., and Morgan, T. M. Statistical considerations in the use and analysis of single-subject designs, 28:639
Redondo, D. R. see Dowling, E. A., 28:482
Reigle, T. G. see Dunn, A. L., 28:204
Reinschmidt, C. see Stacoff, A., 28:350
Rejeski, W. J. see Berry, M. J., 28:808
Reybrouck, T. see Pardaens, K., 28:794
Reynolds, T. H. see Hallmark, M. A., 28:139
Rezvani, M., Ornatsky, O. I., Connor, M. K., Eisenberg, H. A., and Hood, D. A. Dystrophin, vinculin and aciculin in skeletal muscle subject to chronic use and disuse, 28:79
Ribisl, P. M. see Berry, M. J., 28:808
Richards, J. G., Quigley, E. J., Castagno, P. W., and Neeves, R. E. Validity and reliability of the BTE Dynatrac, 28:913
Rimmer, J. H. see Fernhall, B., 28:366
Rimmer, J. H., Braddock, D., and Pitetti, K. H. Research on physical activity and disability: an emerging national priority, 28:1366
Rintala, P. see Fernhall, B., 28:366
Robertson, D., Jacob, G., Ertl, A., Shannon, J., Mosqueda-Garcia, R., Robertson, R. M., and Biaggioni, I. Clinical models of cardiovascular regulation after weightlessness, 28:S80
Robertson, R. J. see Utter, A. C., 28:280
Robertson, R. M. see Robertson, D., 28:S80
Rochcongar, P. see Billat, V., 28:1049
Rochester, D. F. see Farkas, G. A., 28:1106
Rogers, G. G. see Cohen, L. I., 28:176
Rogers, G. G. see Speechly, D. P., 28:359
Rogers, M. A. see Hallmark, M. A., 28:139
Rogol, A. D. Book Review, 28:398
Rosenstein, M. T. see Cowan, D. N., 28:945
Rosenstein, R. M. see Cowan, D. N., 28:945
Roskamm, H. see Meyer, K., 28:1081
Roubenoff, R. see Rall, L. C., 28:1356
Rowe, D. A. see Sloniger, M. A., 28:72
Rowell, A. L. see Hill, D. W., 28:114
Roy, B. see Bilodeau, B., 28:128
Roy, R. R. see Edgerton, V. R., 28:744
Rozendaal, E. E. P. see Janssen, T. W. J., 28:551
Rubmann, T. see Schmid, A., 28:1470
Rueckert, P. A., Slane, P. R., Lillis, D. L., and Hanson, P. Hemodynamic patterns and duration of post-dynamic exercise hypotension in hypertensive humans, 28:24
Rundell, K. W. see Bilodeau, B., 28:128
Rundell, K. W. Compromised oxygen uptake in speed skaters during treadmill in-line skating, 28:120
Rundell, K. W. Effects of drafting during short-track speed skating, 28:765
Rundell, K. W., and McCarthy, J. R. Effect of kinematic variables on performance in women during a cross-country ski race, 28:1413
Rusinowski, J. W., Jr. Book Review, 28:773
Ryan, A. J., Chang, R.-T., and Gisolfi, C. V. Gastrointestinal permeability following aspirin intake and prolonged running, 28:698

S

Sadaniantz, A., Yurgalevitch, S., Zmuda, J. M., and Thompson, P. D. One year of exercise training does not alter resting left ventricular systolic or diastolic function, 28:1345
Sallis, J. F. Book Review, 28:1214
Sallis, J. F., Strikmiller, P. K., Harsha, D. W., Feldman, H. A., Ehlinger, S., Stone, E. J., Williston, J., and Woods, S. Validation of interviewer- and self-administered physical activity checklists for fifth grade students, 28:840
Saiminen, J. J. see Kujala, U. M., 28:165
Sanborn, J. S. see Gardner, J. W., 28:939
Sanchis, J. see Drobnic, F., 28:271
Santoro, G. see Di Bello, V., 28:190
Saris, W. H. M. see Jeukendrup, A., 28:266
Saris, W. H. M. see Van Den Berg-Emons, R. J. G., 28:496
Saumet, J. L. see Desvaux, B., 28:836
Savariryan, S. see Wilson, A. F., 28:436
Sawatzky, J.-A. V. see Ready, A. E., 28:1097
Scharff-Olson, M. see Williford, H. N., 28:926
Scheurs, A. W. see Van Ingen Schenau, G. J., 28:531
Schmid, A., Jakob, E., Berg, A., Rubmann, T., König, D., Irmer, M., and Keul, J. Effect of physical exercise and vitamin C on absorption of ferric sodium citrate, 28:1470
Schoeber, N. see Van Mil, E., 28:1087
Schoenleber, J. see Vanderburgh, P. M., 28:626
Schomer, H. H. see Lindsay, F. H., 28:1427
Schwaibold, M. see Meyer, K., 28:1081
Schwartz, R. S. see Chandler, W. L., 28:647
Schwarz, V. see Beneke, R., 28:1474
Scott, B. E. see Wilber, R. L., 28:1056
Scremin, A. M. E. see Barstow, T. J., 28:1221
Secher, N. H. see Gustafsson, F., 28:1045
Sedlock, D. see Teegarden, D., 28:105
Selig, S. E. see Febbraio, M. A., 28:1380
Semple, E. S. G. see McConnell, A. K., 28:685
Shaffrath, J. D. see McCann, D. J., 28:934, 28:934
Shannon, J. see Robertson, D., 28:S80
Sheffield-Moore, M. see Starling, R. D., 28:1193
Shi, X. Book Review, 28:937
Shi, X., Gallagher, K. M., Smith, S. A., Bryant, K. H., and Raven, P. B. Diminished forearm vasomotor response to central hypervolemic loading in aerobically fit individuals, 28:1388
Shippee, R. L. see Nindl, B. C., 28:786
Shirreffs, S. M., Taylor, A. J., Leiper, J. B., and Maughan, R. J. Post-exercise rehydration in man: effects of volume consumed and drink sodium content, 28:1260
Shoemaker, J. K., Pozeg, Z. I., and Hughson, R. L. Forearm blood flow by Doppler ultrasound during rest and exercise: tests of day-to-day repeatability, 28:1144
Short, K. R. see Starling, R. D., 28:1193
Shukla, P. C. Book Review, 28:935
Siconolfi, S. F., Nusynowitz, M. L., Suire, S. S., Moore, A. D., Jr., and Leig, J. Determining blood and plasma volumes using bioelectrical response spectroscopy, 28:1510
Simons, J. see Maes, H. H. M., 28:1479
Singh, A., Zelazowska, E. B., Petrides, J. S., Raybourne, R. B., Sternberg, E. M., Gold, P. W., and Deuster, P. A. Lymphocyte subset responses to exercise and glucocorticoid suppression in healthy men, 28:822
Singh, P. N., Tonstad, S., Abbey, D. E., and Fraser, G. E. Validity of selected physical activity questions in white Seventh-day Adventists and non-Adventists, 28:1026
Sinning, W. E. see Proctor, D. N., 28:892
Sjödin, A. M., Forslund, A. H., Westerterp, K. R., Andersson, A. B., Forslund, J. M., and Hambræus, L. M. The influence of physical activity on BMR, 28:85
Skinner, J. S. see Wilmore, J. H., 28:829
Slane, P. R. see Rueckert, P. A., 28:24
Sloniger, M. A., Cureton, K. J., Carrasco, D. I., Prior, B. M., Rowe, D. A., and Thompson, R. W. Effect of the slow-component rise in oxygen uptake on VO_{2max}, 28:72
Smith, C. see Gutin, B., 28:19
Smith, D. J. see Kranenburg, K. J., 28:614
Smith, D. J. Diagnosis and management of diving accidents, 28:587
Smith, F. H. see Williford, H. N., 28:926
Smith, S. A. see Shi, X., 28:1388

Snet, J. see Van Mechelen, W., 28:1171
Snow, C. M. see Baldwin, K. M., 28:1247
Soberman, J. see Berry, M. J., 28:808
Solomon, C. G. Diabetes mellitus and risk of cardiovascular disease in women, 28:15
Sonstroem, R. J., and Potts, S. A. Life adjustment correlates of physical self-concepts, 28:619
Specker, B. see Cassell, C., 28:1243
Speechly, D. P., Taylor, S. R., and Rogers, G. G. Differences in ultra-endurance exercise in performance-matched male and female runners, 28:359
Spencer, M. K. see Pepin, E. B., 28:656
Staab, J. S. see Knapik, J. J., 28:1523
Stachura, M. E. see Gutin, B., 28:19
Stacoff, A., Steger, J., Stüssi, E., and Reinschmidt, C. Lateral stability in sideward cutting movements, 28:350
Stager, J. M. see Raglin, J. S., 28:372
Stanforth, P. R. see Wilmore, J. H., 28: 829
Starkey, D. B., Pollock, M. L., Ishida, Y., Welsch, M. A., Brechue, W. F., Graves, J. E., and Feigenbaum, M. S. Effect of resistance training volume on strength and muscle thickness, 28:1311
Starling, R. D., Trappe, T. A., Short, K. R., Sheffield-Moore, M., Jozsi, A. C., Fink, W. J., and Costill, D. L. Effect of inosine supplementation on aerobic and anaerobic cycling performance, 28:1193
Stebbins, C. L. see Symons, J. D., 28:457
Steger, J. see Stacoff, A., 28:350
Stegner, A. J. see Mondin, G. W., 28:1199
Stengele, E. see Meyer, K., 28:1081
Sternberg, E. M. see Singh, A., 28:822
Stetson, S. see Dodd, S. L., 28:669
Stone, E. J. see Sallis, J. F., 28:840
Stotesbery, C. L. see Mondin, G. W., 28: 1199
Stott, G. see MacAuley, D., 28:720
Stoudemire, N. M. see Wideman, L., 28: 509
Stoudemire, N. M., Wideman, L., Pass, K. A., McGinnes, C. L., Gaesser, G. A., and Weltman, A. The validity of regulating blood lactate concentration during running by ratings of perceived exertion, 28:490
Stout, J. R. see Eckerson, J. M., 28:523
Stout, J. R. see Housh, T. J., 28:1331, 28:610
Stratton, J. R. see Chandler, W. L., 28: 647
Strikmiller, P. K. see Myers, L., 28:852
Strikmiller, P. K. see Sallis, J. F., 28:840
Stüssi, E. see Stacoff, A., 28:350
Stuteville, J. E. see Jackson, A. S., 28: 884
Suire, S. S. see Siconolfi, S. F., 28:1510
Swain, R., Wilson, F. D., and Harsha, D. M. The os acromiale: another cause of impingement, 28:1459
Swank, A. M. Book Review, 28:1442, 28: 1443, 28:398
Sweeney, K. see MacAuley, D., 28:720
Symons, J. D., and Stebbins, C. L. Hemodynamic and regional blood flow responses to nicotine at rest and during exercise, 28:457
Szymanski, L. M. see Durstine, J. L., 28: 1277

T

Tabata, I., Nishimura, K., Kouzaki, M., Hirai, Y., Ogita, F., Miyachi, M., and Yamamoto, K. Effects of moderate-intensity endurance and high-intensity intermittent training on anaerobic capacity and $\dot{V}O_{2max}$, 28:1327
Tada, N. see Hirano, Y., 28:1209
Taimela, S. see Kujala, U. M., 28:165
Takaishi, T., Yasuda, Y., Ono, T., and Moritani, T. Optimal pedaling rate estimated from neuromuscular fatique for cyclists, 28:1492
Talarico, L. see Di Bello, V., 28:190
Tanaka, F. see Abe, T., 28:908
Tanaka, H. see Turner, M. J., 28:921
Taoutaou, Z. see Ahmaidi, S., 28:450
Taylor, A. J. see Shirreffs, S. M., 28:1260
Taylor, N. A. S. see Maw, G. J., 28:1038
Taylor, S. R. see Speechly, D. P., 28:359
Tedesco, M. see Pendergast, D. R., 28: 573
Teegarden, D., Proulx, W. R., Kern, M., Sedlock, D., Weaver, C. M., Johnston, C. C., and Lyle, R. M. Previous physical activity relates to bone mineral measures in young women, 28:105
Tehrany, A. M. see Callaway, G. H., 28: 1218
Thadani, U. Hypertension and cardiovascular disease risk in women, 28:7
Theodore, G. H., Kolettis, G. J., and Micheli, L. J. Tenosynovitis of the flexor hallucis longus in a long-distance runner, 28:277
Thévenet, A. see Mercier, J., 28:171
Thijs, L. see Pardaens, K., 28:794
Thomas, C. D. see Nindl, B. C., 28:786
Thomas, M., Fiatarone, M. A., and Fielding, R. A. Leg power in young women: relationship to body composition, strength, and function, 28:1321
Thomas, N. G., and Mitchell, D. Somatosensory-evoked potentials in athletes, 28:473
Thomis, M. see Maes, H. H. M., 28:1479
Thompson, N. N. see Foster, C., 28:752
Thompson, P. D. see Sadaniantz, A., 28: 1345
Thompson, R. W. see Sloniger, M. A., 28: 72
Timmerman, M. see Gutgesell, M. E., 28: 1063
Tipton, C. M. Animal models and their importance to human physiological responses in microgravity, 28:S94
Tipton, C. M., Greenleaf, J. E., and Jackson, C. G. R. Neuroendocrine and immune system responses with spaceflights, 28:988
Tipton, C. M., and Hargens, A. Physiological adaptations and countermeasures associated with long-duration spaceflights, 28:974
Tis, L. L., and Maxwell, T. The effect of positioning on shoulder isokinetic measures in females, 28:1188
Toft, J. C. see Gustafsson, F., 28:1045
Tomassoni, T. L. Introduction: the role of exercise in the diagnosis and management of chronic disease in children and youth, 28:403
Tomassoni, T. L. Role of exercise in the management of cardiovascular disease in children and youth, 28:406
Tonellot, J. L. see Le Gallais, D., 28:541
Tonstad, S. see Singh, P. N., 28:1026
Tran, Z. V. see Pepin, E. B., 28:656
Trappe, T. A. see Starling, R. D., 28:1193
Treuth, M. S., Hunter, G. R., and Williams, M. Effects of exercise intensity on 24-h energy expenditure and substrate oxidation, 28:1138
Trichopoulos, D. see Oliveria, S. A., 28:97
Trine, M. R. see Mondin, G. W., 28:1199
Trinick, T. R. see MacAuley, D., 28:720
Trost, S. G. see Durstine, J. L., 28:1277
Trost, S. G. see Pate, R. R., 28:92
Tsetsonis, N. V., and Hardman, A. E. Reduction in postprandial lipemia after walking: influence of exercise intensity, 28:1235
Tsintzas, O.-K., Williams, C., Wilson, W., and Burrin, J. Influence of carbohydrate supplementation early in exercises on endurance running capacity, 28:1373
Tuller, B. see Lightfoot, J. T., 28:501
Turner, M. J., Tanaka, H., Bassett, D. R., Jr., and Fitton, T. R. The equilibrium CO_2 rebreathing method does not affect resting or exercise blood pressure, 28:921
Turner, P. E., and Raglin, J. S. Variability in precompetition anxiety and performance in college track and field athletes, 28:378
Turpeinen, A. K., Kuikka, J. T., Vanninen, E., Vainio, P., Vanninen, R., Litmanen, H., Koivisto, V. A., Bergström, K., and Uusitupa, M. I. J. Athletic heart: a metabolic, anatomical, and functional study, 28:33
Twisk, J. see Van Mechelen, W., 28:1171
Tyberg, J. V., and Hamilton, D. R. Orthostatic hypotension and the role of changes in venous capacitance, 28:S29

U

Udden, M. M. see Alfrey, C. P., 28:S42
Unnithan, V. B., Dowling, J. J., Frost, G., and Bar-Or, O. Role of cocontraction in the O_2 cost of walking in children with cerebral palsy, 28:1498
Utter, A. C., Goss, F. L., Whitcomb, D. C., Brown, M. L., Pusateri, J. P., Kriska, A. M., Dasilva, S. G., and Robertson, R. J. The effects of acute exercise on gallbladder function in an adult female population, 28:280
Uusitupa, M. I. J. see Turpeinen, A. K., 28:33

V

Vaccaro, P. Book Review, 28:1442, 28: 1442
Vainio, P. see Turpeinen, A. K., 28:33
Väisänen, S., Rauramaa, R., Rankinen, T., Gagnon, J., and Bouchard, C. Physical activity, fitness, and plasma fibrinogen with reference to fibrinogen genotypes, 28:1165
Van Baak, M. A. see Van Den Berg-Emons, R. J. G., 28:496
Van Den Berg-Emons, R. J. G., Saris, W. H. M., Westerterp, K. R., and Van Baak, M. A. Heart rate monitoring to assess

energy expenditure in children with reduced physical activity, 28:496
Vanden Eynde, B. see Maes, H. H. M., 28:1479
Vanderburgh, P. M., and Katch, F. Ratio scaling of VO_{2max} penalizes women with larger percent body fat, not lean body mass, 28:1204
Vanderburgh, P. M., Katch, F. I., Schoenleber, J., Balabinis, C., and Elliott, R. Multivariate allometric scaling of men's world indoor rowing championship performance, 28:626
Vandervoort, A. A. see Porter, M. M., 28:516
van der Woude, L. H. V. see Janssen, T. W. J., 28:551
Van Ingen Schenau, G. J., De Groot, G., Scheurs, A. W., Meester, H., and De Koning, J. J. A new skate allowing powerful plantar flexions improves performance, 28:531
van Ingen Schenau, G. J., de Koning, J. J., Bakker, F. C., and de Groot, G. Performance-influencing factors in homogeneous groups of top athletes: a cross-sectional study, 28:1305
Van Marken Lichtenbelt, W. see Fogelholm, M., 28:545
van Marken Lichtenbelt, W. D. see Bouten, C. V., 28:967
Van Mechelen, W., Twisk, J., Molendijk, A., Blom, B., Snet, J., and Kemper, H. C. G. Subject-related risk factors for sports injuries: a 1-yr prospective study in young adults, 28:1171
Van Mil, E., Schoeber, N., Calvert, R. E., and Bar-Or, O. Optimization of force in the Wingate Test for children with a neuromuscular disease, 28:1087
Vanninen, E. see Turpeinen, A. K., 28:33
Vanninen, R. see Turpeinen, A. K., 28:33
van Oers, C. A. J. M. see Janssen, T. W. J., 28:551
Van Soest, A. J. see Bobbert, M. F., 28:1402
Varray, A. see Mercier, J., 28:171
Veer, A. M. see Claessens, A. L., 28:560
Victor, R. G. see Mitchell, J. H., 28:S60
Ville, N. see Mercier, J., 28:171
Vitiello, M. V. see Chandler, W. L., 28:647
Vito, D. see Epstein, L. H., 28:1157
Vlietinck, R. F. see Maes, H. H. M., 28:1479
von Stein, T. see Halle, M., 28:962
Vrabas, I. S. see Dodd, S. L., 28:669

W

Wagner, P. D. see Johnson, P. C., 28:305
Waller, M. F., and Haymes, E. M. The effects of heat and exercise on sweat iron loss, 28:197
Walschlager, S. Book Review, 28:772
Wang, N. see Williford, H. N., 28:926
Watenpaugh, D. E. see Hargens, A. R., 28:977
Weaver, C. M. see Teegarden, D., 28:105
Webb, R. see Melanson, E. L., 28:247
Webber, L. S. see Myers, L., 28:852
Weir, J. P. see Housh, T. J., 28:610
Weir, L. L. see Housh, T. J., 28:610
Wells, C. L. see Kramer, M. M., 28:322
Welsch, M. A. see Starkey, D. B., 28:1311
Welsman, J. R., Armstrong, N., Nevill, A. M., Winter, E. M., and Kirby, B. J. Scaling peak VO_2 for differences in body size, 28:259
Weltman, A. see Stoudemire, N. M., 28:490
Weltman, A. see Wideman, L., 28:509
Wenger, C. B. see Gardner, J. W., 28:939
Wenger, N. K. Preventive coronary interventions for women, 28:3
Westbrook, S. see Meyer, K., 28:1081
Westerterp, K. see Branth, S., 28:1272
Westerterp, K. see Fogelholm, M., 28:545
Westerterp, K. R. see Bouten, C. V., 28:967
Westerterp, K. R. see Sjödin, A. M., 28:85
Westerterp, K. R. see Van Den Berg-Emons, R. J. G., 28:496
Weymier, J. see Foster, C., 28:752
Whipp, B. J. see Barstow, T. J., 28:1221
Whitcomb, D. C. see Utter, A. C., 28:280
White, R. Workshop summary: final discussion session, 28:S111
White, R. J. Workshop purpose and structure: September 12, 1995, 28:S1
White, T. P. see Baldwin, K. M., 28:1247
Whitehead, R. see Heck, R. W., 28:877
Wideman, L. see Stoudemire, N. M., 28:490
Wideman, L., Stoudemire, N. M., Pass, K. A., McGinnes, C. L., Gaesser, G. A., and Weltman, A. Assessment of the Aerosport TEEM 100 Portable Metabolic Measurement System, 28:509
Wier, L. T. see Jackson, A. S., 28:884
Wilber, R. L., Moffatt, R. J., Scott, B. E., Lee, D. T., and Cucuzzo, N. A. Influence of water run training on the maintenance of aerobic performance, 28:1056
Willemsen, E. M. see Janssen, T. W. J., 28:551
Williams, C. see Tsintzas, O.-K., 28:1373
Williams, D. F. see Lightfoot, J. T., 28:501
Williams, M. see Treuth, M. S., 28:1138
Williams, M. H. see Dowling, E. A., 28:482
Williamson, J. W., Muzi, M., and Ebert, T. J. Unilateral carotid sinus stimulation and muscle sympathetic nerve activity in man, 28:815
Williford, H. N., Scharff-Olson, M., Wang, N., Blessing, D. L., Smith, F. H., and Duey, W. J. Cross-validation of non-exercise predictions of VO_{2peak} in women, 28:926
Williston, J. see Sallis, J. F., 28:840
Wilmore, J. H., Stanforth, P. R., Gagnon, J., Leon, A. S., Rao, D. C., Skinner, J. S., and Bouchard, C. Endurance exercise training has a minimal effect on resting heart rate: the HERITAGE study, 28:829
Wilson, A. F., Savariryan, S., James, N., Mukai, D., and Nishimura, E. Almost simultaneous measurement of cardiovascular and gas exchange variables during maximal exercise, 28:436
Wilson, D. F. see Johnson, P. C., 28:305
Wilson, F. D. see Swain, R., 28:1459
Wilson, W. see Tsintzas, O.-K., 28:1373
Winter, E. M. see Welsman, J. R., 28:259
Winter, E. M. Letter to the Editor-in-Chief, 28:934, 28:934
Winters, K. M., Adams, W. C., Meredith, C. N., Loan, M. D. V., and Lasley, B. l. L. Bone density and cyclic ovarian function in trained runners and active controls, 28:776
Wintrebert, P. see Mercier, J., 28:171
Wittert, G. A., Livesey, J. H., Espiner, E. A., and Donald, R. A. Adaptation of the hypothalamopituitary adrenal axis to chronic exercise stress in humans, 28:1015
Wolf, S. L. see Edgerton, V. R., 28:744
Woodard, M. Book Review, 28:536
Woods, S. see Sallis, J. F., 28:840
Wretenberg, P., Feng, Y., and Arborelius, U. P. High- and low-bar squatting techniques during weight-training, 28:218
Wu, M.-Y. see Mondin, G. W., 28:1199

Y

Yamamoto, K. see Tabata, I., 28:1327
Yasuda, Y. see Takaishi, T., 28:1492
Yoshikawa, K. see Abe, T., 28:908
Youngstedt, S. D. see Dunn, A. L., 28:204
Yurgalevitch, S. see Sadaniantz, A., 28:1345

Z

Zaccaria, M. see Piccoli, A., 28:1517
Zelazowska, E. B. see Singh, A., 28:822
Zhang, S. see Bates, B. T., 28:386
Zmuda, J. M. see Sadaniantz, A., 28:1345

KEY WORD LISTING

A

Aciculin, levels in skeletal muscle related to contractile activity or disuse, 28:79
Activities of daily living, physical capacity and physical strain in men with spinal cord injury, 28:551
Adaptation
cardiovascular and thermal responses to SCUBA diving, 28:581
of hypothalamopituitary adrenal axis to chronic exercise stress, 28:1015
of respiratory muscles to endurance exercise, 28:1115
to spaceflight, 28:974
cardiovascular system, 28:S1, 28:977
exercise as countermeasure for, 28:999
musculoskeletal, 28:983, 28:1247
neuroendocrine and immune system, 28:988
Adenosine triphosphate, anaerobic production and accumulated oxygen deficit in cyclists, 28:315
Adolescents. *See also* Children
age, fat-free weight, and isokinetic peak torque in high school female gymnasts, 28:610
bilateral anterior inferior iliac spine avulsion fractures, 28:161
exercise in diagnosis and management of chronic disease, 28:403
cardiovascular disease, 28:406
neuromuscular disease, 28:421
obesity, 28:428
pulmonary disease, 28:414
factors limiting anaerobic performance in males with cystic fibrosis, 28:291
low-back pain, 28:165
maximal lactate steady state during second decade of age, 28:1474
physical and sedentary activity in school children grades 5–8, 28:852
scaling peak oxygen uptake for differences in body size, 28:259
validity of skinfold estimates of percent fat in high school female gymnasts, 28:1331
Aerobic capacity
changes after 9 wk of running or in-line skate training, 28:1422
changes in aerobic power of women, ages 20–64 yr, 28:884
cross-validation of non-exercise predictions of peak oxygen uptake in women, 28:926
effect of age and training status on cardiovascular and peak oxygen uptake responses to supine exercise, 28:892
effect of endurance training on Lp(a) levels in middle-aged males, 28:757
effect of inosine supplementation on cycling performance, 28:1193
influence of water run training, 28:1056
men with spinal cord injury, 28:551
performance-matched male and female runners, 28:359
predicting functional capacity during treadmill testing independent of exercise protocol, 28:752
Aerobic exercise, pain perception after, 28:1418
Aerobic metabolism
effect of slow-component rise in oxygen uptake on maximal oxygen uptake, 28:72
maximal lactate steady state during second decade of age, 28:1474
Aerosport TEEM 100 Total Metabolic Analysis System, 28:509
Aging
changes in aerobic power of women, ages 20–64 yr, 28:884
effect of age and training status on cardiovascular and peak oxygen uptake responses to supine exercise, 28:892
epidemiology of physical activity and physical function in older people, 28:596
estimation of oxygen uptake in older individuals with osteoarthritis of knee and cardiovascular disease, 28:808
evaluation of Revised Physical Activity Readiness Questionnaire in older adults, 28:468
exercise-induced death in sickle cell trait, 28:541
influence of walking volume on health benefits in women post-menopause, 28:1097
isometric intermittent endurance of four muscle groups in men aged 20–74 years, 28:145
longitudinal study of Olympic oarsmen, 28:1150
method for measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
progressive resistance training effects on immune response, 28:1356
repeatability and relative validity of two physical activity questionnaires in elderly women, 28:1020
simulated microgravity and adrenergic vascular control, 28:S85
Airway occlusion pressure, with ventilation and response to maximal exercise, 28:444
Alcohol use, in long-distance runners, 28:1063
Altitude, monitoring hydration by bioimpedance analysis, 28:1517
Amenorrhea, in ballet dancers, 28:545
Anabolic androgenic steroids, lipoprotein and cholesterol levels in body builders, 28:176
Anaerobic capacity
effect of moderate-intensity endurance and high-intensity intermittent training, 28:1327
Wingate and Critical Power tests in males and females, 28:1336
Anaerobic metabolism
ATP production and accumulated oxygen deficit in cyclists, 28:315
maximal lactate steady state during second decade of age, 28:1474
Anaerobic performance
effect of active recovery on plasma lactate, after repeated intensive exercise, 28:450
effect of inosine supplementation on cycling performance, 28:1193
effect of weight loss and refeeding diet composition in wrestlers, 28:1292
limiting factors in adolescent males with cystic fibrosis, 28:291
Anatomy
lower limb morphology and risk of overuse injury among male infantry trainees, 28:945
os acromiale, 28:1459
Ankle
lateral stability in sideward cutting movements, 28:350
measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
quantifying pronation in overpronating and normal runners, 28:299
tenosynovitis of flexor hallucis longus in long-distance runner, 28:277
Anterior cruciate ligament surgery, eccentric knee flexor torque after, 28:1229
Anterior inferior iliac spine, bilateral avulsion fractures, 28:161
Anthropometric data. *See also* Skinfold measurements
for gravitational moment correction in isokinetic dynamometry, 28:900
to measure energy turnover in sailing crew during offshore racing, 28:1272
validity for estimation of thigh muscle cross-sectional area, 28:1523
Anxiety
precompetition, and performance in college track and field athletes, 28:378
psychological consequences of exercise deprivation in habitual exercisers, 28:1199
Arginine vasopressin, and regulation of extracellular fluid volume during spaceflight, 28:S36
Arrhythmias, malignant ventricular, 28:53
Arterial air embolism, SCUBA diving-related, 28:587, 28:591
Ascorbic acid, effect on absorption of ferric sodium citrate, 28:1470
Aspirin, and gastrointestinal permeability after prolonged running, 28:698
Asthma
and exercise in children and youth, 28:414
related to chlorine exposure in swimmers, 28:271
SCUBA diving and, 28:591
Athletes
acute injuries in cross-country and downhill off-road bicycle racing, 28:1351
adolescent
age, fat-free weight, and isokinetic peak torque in high school female gymnasts, 28:610

bilateral anterior inferior iliac spine avulsion fractures, 28:161
low-back pain, 28:165
amenorrhea in ballet dancers, 28:545
anaerobic ATP production and accumulated oxygen deficit in cyclists, 28:315
ankle to arm index after maximal exercise, 28:836
association between flexibility and running economy in sub-elite male distance runners, 28:737
basal metabolic rate, 28:85
bone density and cyclic ovarian function in trained runners and active controls, 28:776
cardiac anatomy, metabolism, and function, 28:33
cardiovascular preparticipation screening, 28:1445
Chiari I malformation and spinal spinal cord injury, 28:1218
chlorine exposure in swimmers during training, 28:271
effect of creatine supplementation on sprint performance in competitive swimmers, 28:1435
effect of kinematic variables on performance in women during cross-country ski race, 28:1413
exercise responses to running and in-line skating at self-selected paces, 28:247
high- and low-bar squatting techniques during weight-training, 28:218
improved performance in highly trained cyclists after interval training, 28:1427
influence of exercise and athleticism on ventilatory sensitivity to carbon dioxide, 28:685
kinematics of cross-country ski racing, 28:128
lateral stability in sideward cutting movements, 28:350
left ventricular function during exercise, 28:190
lipoprotein(a) in endurance athletes, power athletes, and sedentary controls, 28:962
lipoprotein and cholesterol in body builders using anabolic androgenic steroids, 28:176
longitudinal study of Olympic oarsmen, 28:1150
maximal lactate steady state response in selected sports events, 28:241
modeled responses to training and taper in competitive swimmers, 28:251
mood, neuromuscular function, and performance during training in female swimmers, 28:372
muitivariate allometric scaling of men's world indoor rowing championship performance, 28:626
optimal pedaling rate estimated from neuromuscular fatigue for cyclists, 28:1492
oxygen uptake in speed skaters during treadmill in-line skating, 28:120
pain and growth plate injury in young gymnast, 28:1453
performance-influencing factors in homogeneous groups, 28:1305
physique as risk factor for ulnar variance in female gymnasts, 28:560
plasma glutamine and upper respiratory tract infection during intensified training in swimmers, 28:285
precompetition anxiety and performance in college track and field athletes, 28:378
running velocity at maximal oxygen uptake, 28:114
skinfold estimates of percent fat in high school female gymnasts, 28:1331
somatosensory-evoked potential measurements, 28:473
tenosynovitis of flexor hallucis longus in long-distance runner, 28:277
Automatic implantable cardioverter-defibrillator, exercise testing and, 20:53
Autonomic nervous system
cardiovascular regulation after weightlessness, 28:S80
effect of endurance training on resting heart rate, 28:829
onset of exercise increases lumbar sympathetic nerve activity in rats, 28:677
pressor response to isometric exercise in multiple sclerosis, 28:656
unilateral carotid sinus stimulation and muscle sympathetic nerve activity, 28:815

B

Back pain, in adolescent athletes, 28:165
Ballet dancers, amenorrhea in, 28:545
Baroreceptors
control of heart rate during exercise, 28:210
diminished forearm vasomotor response to central hypervolemic loading in aerobically fit individuals, 28:1388
spaceflight and
cardiovascular regulation after weightlessness, 28:S80
neural control of cardiovascular system, 28:S60
research activities during past space missions, 28:S3
role of arginine vasopressin in regulation of extracellular fluid volume, 28:S36
unilateral carotid sinus stimulation and muscle sympathetic nerve activity, 28:815
Barotrauma, SCUBA diving-related, 28:587, 28:591
Basal metabolic rate, physical activity effects, 28:85
Behavior modification, increasing physical activity, 28:706
Bicarbonate, effect on lactate kinetics in forearm muscles during leg exercise, 28:692
Biodynamics
age, fat-free weight, and isokinetic peak torque in high school female gymnasts, 28:610
association between flexibility and running economy in sub-elite male distance runners, 28:737
countermovement jump height greater than squat jump height, 28:1402
cross-sectional and longitudinal uses of isoinertial, isometric, and isokinetic dynamometry, 28:1180
effect of positioning on shoulder isokinetic measures in females, 28:1188
effect of 6 wk of training on running mechanics and running economy, 28:860
high- and low-bar squatting techniques during weight-training, 28:218
kinematics of cross-country ski racing, 28:128
lateral stability in sideward cutting movements, 28:350
no effect of cycling experience on leg cycle ergometer efficiency, 28:1396
optimal pedaling rate estimated from neuromuscular fatigue for cyclists, 28:1492
oxygen uptake in speed skaters during treadmill in-line skating, 28:120
relationship between rearfoot and forefoot orientation and ground reaction forces during running, 28:225
role of cocontraction in O_2 cost of walking in children with cerebral palsy, 28:1498
running velocity at maximal oxygen uptake, 28:114
selective muscle activation after rapid varus/valgus perturbations at knee, 28:870
somatosensory-evoked potentials in athletes, 28:473
theoretical basis for patterning EMG amplitudes to assess muscle dysfunction, 28:744
whole-body hyperhydration in endurance-trained males determined using radionuclide dilution, 28:1038
Bioelectrical impedance analysis
equations for estimating percent fat in males, 28:523
monitoring hydration at high altitude, 28:1517
Bioelectrical response spectroscopy, to determine blood and plasma volumes, 28:1510
Biomechanics, measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
Blood flow. *See also* Circulation
coronary, α_1-adrenergic constrictor tone and exercise intensity, 28:62
diminished forearm vasomotor response to central hypervolemic loading in aerobically fit individuals, 28:1388
forearm, Doppler ultrasound studies during rest and exercise, 28:1144
hemodynamic and regional blood flow responses to nicotine, 28:457
regulation in skeletal muscle, 28:305
relationship of peak exercise capacity with indexes of peripheral muscle vasodilation, 28:1254
respiratory muscle perfusion and energetics during exercise, 28:1123
in spaceflight
regional blood flow, 28:S70
regulation of systemic circulation at microgravity and during readaptation to 1G, 28:S9
Blood pressure
adaptation to spaceflight, 28:977
ambient noise interference with auscultatory measurement during exercise, 28:502
ankle to arm index after maximal exercise in normal subjects and athletes, 28:836
cardiovascular disease risk in women, 28:7
effect of equilibrium CO_2 rebreathing method, 28:921

during maximal exercise, and mortality risk in apparently healthy persons, 28:601
onset of exercise increases lumbar sympathetic nerve activity in rats, 28:677
operational studies in space, 28:S18
pain perception after aerobic exercise, 28:1418
post-exercise hypotension in hypertensive subjects, 28:24
pressor response to isometric exercise in multiple sclerosis, 28:656
prognostic significance of peak oxygen uptake in hypertension, 28:784
role of arginine vasopressin in regulation of extracellular fluid volume during spaceflight, 28:S36
Blood volume
determining blood and plasma volumes using bioelectrical response spectroscopy, 28:1510
spaceflight and
body fluid metabolism and control of intravascular volume, 28:S56
clinical aspects of control of plasma volume at microgravity and during return to 1G, 28:S45
destruction of newly released red blood cells, 28:S42
orthostatic hypotension and role of changes in venous capacitance, 28:S29
whole-body hyperhydration in endurance-trained males determined using radionuclide dilution, 28:1038
Body builders, anabolic androgenic steroid, lipoprotein and cholesterol levels, 28:176
Body composition
bioelectrical impedance equations for estimating percent fat in males, 28:523
effects of chromium and resistive training, 28:139
influence of walking volume on health benefits in women post-menopause, 28:1097
regional fat placement in physically fit males and changes with weight loss, 28:786
relationship to leg power in young women, 28:1321
Body fat
bioelectrical impedance equations for estimating in males, 28:523
ratio scaling of maximal oxygen uptake penalizes women with larger percent body fat, not lean body mass, 28:1204
regional fat placement in physically fit males and changes with weight loss, 28:786
skinfold estimates of percent fat in high school female gymnasts, 28:1331
total and segmental subcutaneous adipose tissue volume measured by ultrasound, 28:908
Bone
loss due to weightlessness, 28:1247
os acromiale, 28:1459
physique as risk factor for ulnar variance in female gymnasts, 28:560
Bone mineral density
and cyclic ovarian function in trained runners and active controls, 28:776
relation to physical activity and nutrition, 28:335
relation to previous physical activity in young women, 28:105
in 7- to 9-yr-old female gymnasts and swimmers, 28:1243
Breast cancer, physical activity to reduce risk, 28:322

C

Calorimetry, effect of exercise intensity on 24-h energy expenditure and substrate oxidation, 28:1138
Cancer
cardiorespiratory fitness and prostate cancer, 28:97
reducing risk of estrogen-dependent cancer in women, 28:322
Carbohydrates
effect of timing of ingestion on endurance exercise performance, 28:1300
effect on exercise metabolism and performance in different ambient temperatures, 28:1380
influence of supplementation early in exercise on endurance running capacity, 28:1373
Carbon dioxide
effect of equilibrium CO_2 rebreathing method on blood pressure, 28:921
influence of exercise and athleticism on ventilatory sensitivity to, 28:685
measuring output during maximal exercise, 28:436
Carbon monoxide, measuring diffusing capacity of lung for, during maximal exercise, 28:436
Cardiac output
effect of equilibrium CO_2 rebreathing method, 28:921
during exercise in athletes and sedentary men, 28:190
exercise training effect on resting left ventricular systolic and diastolic function, 28:1345
measurement during maximal exercise, 28:436
post-exercise, in hypertensive subjects, 28:24
Cardiac rehabilitation
adherence in Training Levels Comparison Trial, 28:47
children and adolescents, 28:406
patients with malignant ventricular arrhythmias, 28:53
short endurance training improves lactate removal ability in patients with heart transplants, 28:801
Cardiovascular fitness
inheritance of physical fitness in 10-yr-old twins and their parents, 28:1479
preparticipation cardiovascular screening of athletes, 28:1445
prostate cancer and, 28:97
running and in-line skating at self-selected paces, 28:247
Carotid sinus stimulation, unilateral, muscle sympathetic nerve activity and, 28:815
Cerebral palsy
exercise in assessment and management, 28:421
heart rate monitoring in children to assess energy expenditure, 28:496
optimization of force in Wingate Test for children, 28:1087
role of cocontraction in O_2 cost of walking in children, 28:1498
Chiari I malformation, and spinal stenosis in contact athletes, 28:1218
Children. *See also* Adolescents
bone mineral density in 7- to 9-yr-old female gymnasts and swimmers, 28:1243
exercise in diagnosis and management of chronic disease, 28:403
cardiovascular disease, 28:406
neuromuscular disease, 28:421
obesity, 28:428
pulmonary disease, 28:414
heart rate monitoring to assess energy expenditure in cerebral palsy, 28:496
inheritance of physical fitness in 10-yr-old twins and their parents, 28:1479
maximal lactate steady state during second decade of age, 28:1474
obese, 28:428
determinants of physical activity in, 28:1157
exercise effects on coronary risk factors in girls, 28:19
optimization of force in Wingate Test in neuromuscular disease, 28:1087
physical and sedentary activity in school children grades 5–8, 28:852
role of cocontraction in O_2 cost of walking in cerebral palsy, 28:1498
scaling peak oxygen uptake for differences in body size, 28:259
validation of interviewer- and self-administered physical activity checklists for fifth grade students, 28:840
wrist pain and growth plate injury in young gymnast, 28:1453
young, physical activity tracking, 28:92
Chlorine exposure, in swimmers, 28:271
Cholelithiasis, exercise effects in women, 28:280
Cholesterol
coronary heart disease risk and levels in women, 28:13
exercise effects on levels in obese girls, 28:19
levels in body builders using anabolic androgenic steroids, 28:176
physical activity, lipids, apolipoproteins, and Lp(a) in Northern Ireland Health and Activity Survey, 28:720
Chromium supplementation, effects on muscle strength and body composition, 28:139
Chronic disease and disability
in children, 28:403
cardiovascular disease, 28:406
neuromuscular disease, 28:421
obesity, 28:428
pulmonary disease, 28:414
influence of different exercise protocols on functional capacity and symptoms in heart disease, 28:1081
pressor response to isometric exercise in multiple sclerosis, 28:656
relation to physical activity and nutrition, 28:335
research on physical activity and, 28:1366
Circadian rhythm, of fibrinolysis, effects of endurance training, 28:647
Circulation. *See also* Blood flow

hemodynamic and regional blood flow responses to nicotine, 28:457
in spaceflight, 28:977
body fluid metabolism and control of intravascular volume, 28:S56
clinical aspects of control of plasma volume at microgravity and during return to 1G, 28:S45
destruction of newly released red blood cells, 28:S42
orthostatic hypotension and role of changes in venous capacitance, 28:S29
regional blood flow, 28:S70
regulation at microgravity and during readaptation to 1G, 28:S9
Claudication, ankle to arm index after maximal exercise in normal subjects and athletes, 28:836
Clenbuterol, effects on contractile and biochemical properties of skeletal muscle, 28:669
Cognitive psychology, recall of physical activity, 28:1282
Compliance of patient, in Training Levels Comparison Trial, 28:47
Coronary heart disease
adherence of male patients in Training Levels Comparison Trial, 28:47
effect of single exercise session on Lp(a), 28:1277
exercise effects on risk factors in obese girls, 28:19
relation to physical activity and nutrition, 28:335
SCUBA diving risk, 28:591
in women
diabetes mellitus risk, 28:15
hormone replacement therapy effects, 28:13, 28:17
lipids and estrogen status risk, 28:13
oral contraceptive effects, 28:7, 28:11
physical inactivity risk, 28:9
prevention, 28:3
risk factors, 28:3, 28:7
Correlation coefficient, effects of sample size and variability, 28:386
Cortisol, metabolic responses to aerobic dance in pregnancy, 28:41
Creatine supplementation, effect on sprint performance in competitive swimmers, 28:1435
Critical Power test, anaerobic components in males and females, 28:1336
Cycling
acute injuries in cross-country and downhill off-road racing, 28:1351
anaerobic ATP production and accumulated oxygen deficit, 28:315
effect of inosine supplementation on aerobic and anaerobic performance, 28:1193
improved performance in highly trained cyclists after interval training, 28:1427
maximal lactate steady state response during, 28:241
methodological effects on oxygen uptake-power regression and accumulated oxygen deficit, 28:392
new validated endurance performance test, 28:266
no effect of cycling experience on leg cycle ergometer efficiency, 28:1396
optimal pedaling rate estimated from neuromuscular fatigue, 28:1492
Cystic fibrosis
exercise in evaluation and management, 28:414
factors limiting anaerobic performance in adolescent males, 28:291

D

Dancing
amenorrhea in ballet dancers, 28:545
metabolic and hormonal responses to aerobic dance in pregnancy, 28:41
Death
exercise-induced, in sickle cell trait, 28:541
maximal exercise hemodynamics and risk in apparently healthy persons, 28:601
sudden cardiac
malignant ventricular arrhythmias and, 28:53
preparticipation screening of athletes, 28:1445
Decompression illness, SCUBA diving-related, 28:587, 28:591
Depression
psychological consequences of exercise deprivation in habitual exercisers, 28:1199
relationship with smoking and physical activity, 28:233
Diabetes mellitus
and cardiovascular disease risk in women, 28:15
non-insulin-dependent
exercise effects in obese girls, 28:19
relation to physical activity and nutrition, 28:335
SCUBA diving and, 28:591
Diaphragm
adaptation to endurance exercise, 28:1115
contractility, 28:1106
fatigue during exercise, 28:1129
perfusion and energetics during exercise, 28:1123
Diet and nutrition
carbohydrates
effect of timing of ingestion on endurance exercise performance, 28:1300
effect on exercise metabolism and performance in different ambient temperatures, 28:1380
influence of supplementation early in exercise on endurance running capacity, 28:1373
chromium supplementation, 28:139
effect of weight loss and refeeding diet composition on anaerobic performance in wrestlers, 28:1292
relation to physical activity and chronic disease, 28:335
3,4-Dihydroxyphenylglycol, rat brain levels after exercise, 28:204
Disability. *See* Chronic disease and disability
Diving. *See* SCUBA diving
Dorsiflexion,
method for measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
Double labeled water technique, to measure energy turnover in sailing crew during offshore racing, 28:1272
Down syndrome, cardiorespiratory capacity in, 28:366
Drafting, during short-track speed skating, 28:765
Dynamometry
gravitational moment correction in isokinetic dynamometry using anthropometric data, 28:900
isoinertial, isometric, and isokinetic, cross-sectional and longitudinal, 28:1180
validity and reliability of BTE Dynatrac, 28:913
Dystrophin, levels in skeletal muscle related to contractile activity or disuse, 28:79

E

Eating disorders
and amenorrhea in ballet dancers, 28:545
body mass index and daily physical activity in anorexia nervosa, 28:967
Echocardiography
Doppler studies of left ventricular function during exercise in athletes and sedentary men, 28:190
evaluation of heart of senior oarsman, 28:1045
exercise training effect on resting left ventricular systolic and diastolic function, 28:1345
research activities during past space missions, 28:S3
Elbow, indicators of inflammation after eccentric exercise of elbow flexors, 28:953
Elderly persons. *See* Aging
Electrical stimulation of denervated muscle, 28:1463
Electrolyte balance
body fluid metabolism at actual and simulated microgravity, 28:S32
effects of volume consumed and drink sodium content on post-exercise rehydration, 28:1260
research activities during past space missions, 28:S3
Electromyography
analysis of shoulder positioning in testing and strengthening the supraspinatus, 28:661
eccentric knee flexor torque after anterior cruciate ligament surgery, 28:1229
optimal pedaling rate estimated from neuromuscular fatigue for cyclists, 28:1492
role of cocontraction in O_2 cost of walking in children with cerebral palsy, 28:1498
selective muscle activation after rapid varus/valgus perturbations at knee, 28:870
theoretical basis for patterning EMG amplitudes to assess muscle dysfunction, 28:744
Eleutherococcus senticosus, effect on submaximal and maximal exercise performance, 28:482
Endocrinology. *See* Hormones
Endometrial cancer, physical activity to reduce risk, 28:322
Endurance exercise
adaptation of respiratory muscles, 28:1115

comparison of critical speed determined from track running and treadmill tests, 28:614
effect of moderate-intensity endurance and high-intensity intermittent training on anaerobic capacity and maximal oxygen uptake, 28:1327
effect of timing of carbohydrate ingestion on performance, 28:1300
effect on circadian rhythm of fibrinolysis in men and women, 28:647
effect on gas exchange kinetics in patients with spinal cord injury, 28:1221
effect on Lp(a) levels in middle-aged males, 28:757
effect on resting heart rate, 28:829
gastrointestinal permeability after aspirin intake and prolonged running, 28:698
influence of carbohydrate supplementation early in exercise on endurance running capacity, 28:1373
influence of exercise and athleticism on ventilatory sensitivity to carbon dioxide, 28:685
isometric intermittent endurance of four muscle groups in men aged 20–74 years, 28:145
male reproductive system effects, 28:180
new validated endurance performance test, 28:266
in performance-matched male and female runners, 28:359
short endurance training improves lactate removal ability in patients with heart transplants, 28:801
whole-body hyperhydration in endurance-trained males determined using radionuclide dilution, 28:1038
Energy expenditure. *See also* Exercise intensity
and amenorrhea in ballet dancers, 28:545
assessment by heart rate monitoring in children with cerebral palsy, 28:496
basal metabolic rate effects, 28:85
effects of exercise intensity, 28:1138
energy balance in sailing crew during offshore racing, 28:1272
influence on postprandial lipemia after walking, 28:1235
physical activity, fitness, and plasma fibrinogen, 28:1165
relation to bone mineral measures in young women, 28:105
relation to oxygen delivery in muscle, 28:305
role of cocontraction in O_2 cost of walking in children with cerebral palsy, 28:1498
during running and in-line skating at self-selected paces, 28:247
Environmental effects
ambient noise interference with auscultatory blood pressure measurement, 28:502
cardiovascular and thermal responses to SCUBA diving, 28:581
effect of carbohydrate ingestion on exercise metabolism and performance in different ambient temperatures, 28:1380
heat, exercise, and sweat iron loss, 28:197
marathon medical services to reduce runner morbidity, 28:1093
Olympics in Atlanta, 28:665
risk factors predicting exertional heat illness in male Marine Corps recruits, 28:939
Epidemiology
cardiorespiratory fitness and prostate cancer, 28:97
determinants of physical activity in obese children, 28:1157
evaluation of Revised Physical Activity Readiness Questionnaire in older adults, 28:468
increasing physical activity: a quantitative synthesis, 28:706
inheritance of physical fitness in 10-yr-old twins and their parents, 28:1479
longitudinal study of Olympic oarsmen, 28:1150
physical activity, fitness, and plasma fibrinogen, 28:1165
physical activity, lipids, apolipoproteins, and Lp(a) in Northern Ireland Health and Activity Survey, 28:720
physical activity, nutrition, and chronic disease, 28:335
physical activity and bone mineral measures in young women, 28:105
physical activity and physical function in older people, 28:596
physical activity to reduce risk of estrogen-dependent cancer in women, 28:322
physical and sedentary activity in school children grades 5–8, 28:852
recall of physical activity, 28:1282
repeatability and relative validity of two physical activity questionnaires in elderly women, 28:1020
reported alcohol use and behavior in long-distance runners, 28:1063
smoking, physical activity, and depression, 28:233
subject-related risk factors for sports injuries in young adults, 28:1171
tracking physical activity in young children, 28:92
validation of interviewer- and self-administered physical activity checklists for fifth grade students, 28:840
validity of selected physical activity questions in white Seventh-day Adventists and non-Adventists, 28:1026
Epinephrine, plasma levels in response to nicotine, 28:457
Equipment, sports
numerical simulation of turning alpine ski during recreational skiing, 28:1209
performance effects of new skate allowing powerful plantar flexions in speed skating, 28:531
for SCUBA diving, 28:573
shoe design and lateral stability in sideward cutting movements, 28:350
Ergogenic aids
chromium, 28:139
effect of creatine supplementation on sprint performance in competitive swimmers, 28:1435
effect of inosine supplementation on aerobic and anaerobic cycling performance, 28:1193
Eleutherococcus senticosus, 28:482
Estrogen status in women
effect on coronary heart disease risk, 28:13
estrogen replacement therapy, 28:17
physical activity and risk of estrogen-dependent cancer, 28:322
Exercise. *See also* Physical activity
aerobic dance in pregnancy, 28:41
arrhythmogenic effects, 20:53
basal metabolic rate effects, 28:85
coronary disease risk effects
in diabetic women, 28:15
in obese girls, 28:19
effect of bicarbonate on lactate kinetics in forearm muscles during leg exercise, 28:692
effect on ferric sodium citrate absorption, 28:1470
effect on gallbladder function in women, 28:280
left ventricular function in athletes and sedentary men, 28:190
lymphocyte subset responses to glucocorticoid suppression and, in healthy men, 28:822
male reproductive system and endurance training, 28:180
onset of exercise increases lumbar sympathetic nerve activity in rats, 28:677
predicting functional capacity during treadmill testing independent of exercise protocol, 28:752
pressor response to isometric exercise in multiple sclerosis, 28:656
psychological consequences of exercise deprivation in habitual exercisers, 28:1199
respiratory muscle fatigue, 28:1129
respiratory muscle perfusion and energetics, 28:1123
responses after cardiac transplantation, influence of post-surgery time, 28:171
responses to running and in-line skating at self-selected paces, 28:247
role in diagnosis and management of chronic disease in children and youth, 28:403
supine, effects of age and training status on cardiovascular and peak oxygen uptake responses, 28:892
sweat iron loss, 28:197
Exercise intensity. *See also* Energy expenditure
coronary α_1-adrenergic constrictor tone variations, 28:62
effect of moderate-intensity endurance and high-intensity intermittent training on anaerobic capacity and maximal oxygen uptake, 28:1327
effect of single exercise session on Lp(a), 28:1277
effects on 24-h energy expenditure and substrate oxidation, 28:1138
influence on postprandial lipemia after walking, 28:1235
Exercise prescription
as countermeasure for physiological adaptation to prolonged spaceflight, 28:999
evaluation of Revised Physical Activity Readiness Questionnaire in older adults, 28:468
validity of regulating blood lactate concentration during, by ratings of perceived exertion, 28:490

Exercise testing
children and youth with chronic disease
cardiovascular disease, 28:406
neuromuscular disease, 28:421
pulmonary disease, 28:414
cross-validation of non-exercise predictions of peak oxygen uptake in women, 28:926
effect of active recovery on plasma lactate and anaerobic power after repeated intensive exercise, 28:450
graded, effect of slow-component rise in oxygen uptake on maximal oxygen uptake, 28:72
influence of different exercise protocols on functional capacity and symptoms in chronic heart disease, 28:1081
left ventricular function in athletes and sedentary men, 28:190
maximal exercise hemodynamics and mortality risk in apparently healthy persons, 28:601
measuring cardiovascular and gas exchange variables during maximal exercise, 28:436
new validated endurance performance test, 28:266
oxygen uptake in speed skaters during treadmill in-line skating, 28:120
patients with malignant ventricular arrhythmias, 28:53
persons with mental retardation, 28:366
role in diagnosis and management of chronic disease in children and youth, 28:403
Wingate Anaerobic Test in adolescent males, 28:291
Experimental design. *See also* Methods
single-subject methodology, 28:631, 28:639

F

Fat-free weight, correlation with isokinetic peak torque in high school female gymnasts, 28:610
Fatigue
optimal pedaling rate estimated from neuromuscular fatigue for cyclists, 28:1492
respiratory, during exercise, 28:1129
Ferric sodium citrate, effect of exercise and vitamin C on absorption, 28:1470
Fibrinogen, physical activity, fitness and, 28:1165
Fibrinolysis, circadian rhythm of, effects of endurance training in men and women, 28:647
Figure skating, low-back pain in adolescents, 28:165
Flexibility, and running economy in sub-elite male distance runners, 28:737
Fluids
determining blood and plasma volumes using bioelectrical response spectroscopy, 28:1510
effects of volume consumed and drink sodium content on post-exercise rehydration, 28:1260
influence of carbohydrate supplementation early in exercise on endurance running capacity, 28:1373
monitoring hydration at high altitude by bioimpedance analysis, 28:1517
spaceflight and
body fluid metabolism and control of intravascular volume, 28:S56
body fluid metabolism at actual and simulated microgravity, 28:S32
clinical aspects of control of plasma volume at microgravity and during return to 1G, 28:S45
research activities during past space missions, 28:S3
role of arginine vasopressin in regulation of extracellular fluid volume, 28:S36
whole-body hyperhydration in endurance-trained males determined using radionuclide dilution, 28:1038
Fontan operation, 28:406
Foot
flexibility and running economy in sub-elite male distance runners, 28:737
lateral stability in sideward cutting movements, 28:350
measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
quantifying pronation in overpronating and normal runners, 28:299
rearfoot and forefoot orientation and ground reaction forces during running, 28:225
tenosynovitis of flexor hallucis longus in long-distance runner, 28:277
Fractures, bilateral anterior inferior iliac spine avulsion, 28:161

G

Gait
leg power in young women, 28:1321
role of cocontraction in O_2 cost of walking in children with cerebral palsy, 28:1498
Gallbladder, exercise effects in women, 28:280
Gas embolism, SCUBA diving-related, 28:587, 28:591
Gas exchange
Aerosport TEEM 100 Total Metabolic Analysis System, 28:509
measurement during maximal exercise, 28:436
training effects on kinetics in patients with spinal cord injury, 28:1221
Gastrocnemius muscle, clenbuterol effects on contractile and biochemical properties, 28:669
Gastrointestinal permeability, after aspirin intake and prolonged running, 28:698
Gender differences
in anaerobic components of Wingate and Critical Power tests, 28:1336
relationship of time limit at 100% maximal oxygen uptake with other bioenergetic characteristics, 28:1049
ultra-endurance exercise in performance-matched male and female runners, 28:359
Geriatrics. *See* Aging
Ginseng, effect on submaximal and maximal exercise performance, 28:482
Glucocorticoid suppression, and lymphocyte subset responses to exercise in healthy men, 28:822
Glucose metabolism, responses to aerobic dance in pregnancy, 28:41
Glutamine, plasma levels and upper respiratory infection during intensified training in swimmers, 28:285
Gravity
gravitational moment correction in isokinetic dynamometry using anthropometric data, 28:900
microgravity. *See* Spaceflight
Ground reaction forces, relationship with rearfoot and forefoot orientation during running, 28:225
Gymnasts
age, fat-free weight, and isokinetic peak torque in high school females, 28:610
bone mineral density in in 7- to 9-yr-old females, 28:1243
low-back pain in adolescents, 28:165
physique as risk factor for ulnar variance in females, 28:560
somatosensory-evoked potential measurements, 28:473
validity of skinfold estimates of percent fat in high school females, 28:1331
wrist pain and growth plate injury, 28:1453

H

Heart
adaptations to spaceflight, 28:S1, 28:977
α_1-adrenergic constrictor tone and exercise intensity, 28:62
athletic, 28:33
cardiovascular preparticipation screening of athletes, 28:1445
echocardiographic evaluation in senior oarsman, 28:1045
exercise in diagnosis and management of cardiovascular disease in children and youth, 28:406
exercise training effect on resting left ventricular systolic and diastolic function, 28:1345
left ventricular function during exercise in athletes and sedentary men, 28:190
Heart disease. *See also* Coronary heart disease
congenital, role of exercise in diagnosis and management, 28:406
estimation of oxygen uptake in older individuals with osteoarthritis of knee and, 28:808
influence of different exercise protocols on functional capacity and symptoms, 28:1081
maximal exercise hemodynamics and mortality risk in apparently healthy persons, 28:601
SCUBA diving and, 28:591
Heart rate
ankle to arm index after maximal exercise in normal subjects and athletes, 28:836
control during exercise by baroreceptors and skeletal muscle afferents, 28:210
effects of drafting during short-track speed skating, 28:765
during exercise after cardiac transplantation, influence of post-surgery time, 28:171
maximal, and mortality risk in apparently healthy persons, 28:601
monitoring

in children with cerebral palsy to assess energy expenditure, 28:496
in speed skaters during treadmill in-line skating, 28:120
in young children, 28:92
onset of exercise increases lumbar sympathetic nerve activity in rats, 28:677
operational studies in space, 28:S18
pressor response to isometric exercise in multiple sclerosis, 28:656
research activities during past space missions, 28:S3
responses to SCUBA diving, 28:581
resting, effect of endurance training, 28:829
Heart transplantation
influence of post-surgery time on exercise responses, 28:171
short endurance training improves lactate removal ability after, 28:801
Heat effects
effect of carbohydrate ingestion on exercise metabolism and performance in different ambient temperatures, 28:1380
Olympics in Atlanta, 28:665
risk factors predicting exertional heat illness in male Marine Corps recruits, 28:939
sweat iron loss, 28:197
Hemodynamics. *See also* Blood flow
maximal exercise, and risk of mortality in apparently healthy persons, 28:601
responses to nicotine, 28:457
Hip
flexibility and running economy in sub-elite male distance runners, 28:737
high- and low-bar squatting techniques during weight-training, 28:218
Hoffmann (H-) reflex, relation to mood and performance during training in female swimmers, 28:372
Hormones. *See also* Estrogen status in women
adaptation of hypothalamopituitary adrenal axis to chronic exercise stress, 28:1015
bone density and cyclic ovarian function in trained runners and active controls, 28:776
male reproductive system and endurance exercise, 28:180
responses to aerobic dance in pregnancy, 28:41
responses to spaceflight, 28:988
induced by isolation and confinement, 28:S53
Hydration
effects of volume consumed and drink sodium content on post-exercise rehydration, 28:1260
influence of carbohydrate supplementation early in exercise on endurance running capacity, 28:1373
monitoring at high altitude by bioimpedance analysis, 28:1517
whole-body hyperhydration in endurance-trained males determined using radionuclide dilution, 28:1038
Hypertension. *See also* Blood pressure
post-exercise hypotensive effects, 28:24
prognostic significance of peak oxygen uptake in, 28:784
in women, 28:7
Hypotension. *See also* Blood pressure
orthostatic, spaceflight and, 28:S3
clinical models of cardiovascular regulation after weightlessness, 28:S80
induced by isolation and confinement, 28:S53
operational studies, 28:S18
role of changes in venous capacitance, 28:S29
post-exercise, in hypertensive subjects, 28:24

I

Ice hockey, low-back pain in adolescents, 28:165
Iliac spine, bilateral anterior inferior avulsion fractures, 28:161
Immune system
indicators of inflammation after eccentric exercise of elbow flexors, 28:953
lymphocyte subset responses to exercise and glucocorticoid suppression in healthy men, 28:822
physical activity to reduce risk of estrogen-dependent cancer in women, 28:322
plasma glutamine and upper respiratory tract infection during intensified training in swimmers, 28:285
progressive resistance training effects in aging and chronic inflammation, 28:1356
responses to spaceflight, 28:988
Infections, plasma glutamine and upper respiratory tract infection during intensified training in swimmers, 28:285
Inflammation
indicators after eccentric exercise of elbow flexors, 28:953
progressive resistance training effects, 28:1356
Injuries
acute, in cross-country and downhill off-road bicycle racing, 28:1351
lower limb morphology and risk of overuse injury among male infantry trainees, 28:945
spinal cord
and Chiari I malformation in contact athletes, 28:1218
physical capacity and physical strain in men, 28:551
training effects on gas exchange kinetics, 28:1221
subject-related risk factors in young adults, 28:1171
In-line skating
changes in maximal oxygen uptake and maximal treadmill time after 9 wk of running or in-line skate training, 28:1422
at self-selected paces, exercise responses to, 28:247
treadmill, oxygen uptake of speed skaters during, 28:120
Inosine supplementation, effect on aerobic and anaerobic cycling performance, 28:1193
Insulin, responses to aerobic dance in pregnancy, 28:41
Iron
effect of exercise and vitamin C on ferric sodium citrate absorption, 28:1470
heat and exercise effects on sweat loss, 28:197
Isokinetics
age, fat-free weight, and isokinetic peak torque in high school female gymnasts, 28:610
cross-sectional and longitudinal uses of isoinertial, isometric, and isokinetic dynamometry, 28:1180
effect of positioning on shoulder measures in females, 28:1188
gravitational moment correction in isokinetic dynamometry using anthropometric data, 28:900
measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
validity and reliability of BTE Dynatrac, 28:913

J

Joint angle measurements, in speed skaters during treadmill in-line skating, 28:120
Jumping, countermovement jump height greater than squat jump height, 28:1402

K

Kinematics, cross-country ski racing, 28:128
effect on performance of women, 28:1413
Knee
eccentric knee flexor torque after anterior cruciate ligament surgery, 28:1229
effect of resistance training volume on strength and muscle thickness, 28:1311
estimation of oxygen uptake in older individuals with osteoarthritis of knee and cardiovascular disease, 28:808
high- and low-bar squatting techniques during weight-training, 28:218
selective muscle activation after rapid varus/valgus perturbations, 28:870

L

Lactate
effect of active recovery on anaerobic power and, after repeated intensive exercise, 28:450
effect of bicarbonate on lactate kinetics in forearm muscles during leg exercise, 28:692
effect of drafting during short-track speed skating, 28:765
effect of *Eleutherococcus senticosus* on blood levels, 28:482
levels in speed skaters during treadmill in-line skating, 28:120
maximal steady state during second decade of age, 28:1474
maximal steady state response in selected sports events, 28:241
regulating blood concentration during running by ratings of perceived exertion, 28:490
short endurance training improves lactate removal ability in patients with heart transplants, 28:801
Lifestyle modifications, physical activity, nutrition, and chronic disease, 28:335
Lipoproteins
coronary heart disease risk and levels in women, 28:13

effect of endurance training on Lp(a) levels in middle-aged males, 28:757
effect of single exercise session on Lp(a), 28:1277
exercise effects in obese girls, 28:19
influence of exercise intensity on postprandial lipemia after walking, 28:1235
influence of walking volume on health benefits in women post-menopause, 28:1097
levels in body builders using anabolic androgenic steroids, 28:176
lipoprotein(a) in endurance athletes, power athletes, and sedentary controls, 28:962
physical activity, lipids, apolipoproteins, and Lp(a) in Northern Ireland Health and Activity Survey, 28:720
Low-back pain, adolescent athletes, 28:165
Lower limb morphology, risk of overuse injury among male infantry trainees, 28:945
Lymphocytes. *See also* Immune system
progressive resistance training effects in aging and chronic inflammation, 28:1356
responses to spaceflight, 28:988
subset responses to exercise and glucocorticoid suppression in healthy men, 28:822

M

Magnetic resonance imaging studies
anthropometric estimate of thigh muscle cross-sectional area, 28:1523
athletic heart, 28:33
Chiari I malformation and spinal stenosis in contact athletes, 28:1218
indicators of inflammation after eccentric exercise of elbow flexors, 28:953
low-back pain in adolescent athletes, 28:165
total and segmental subcutaneous adipose tissue volume, 28:908
wrist pain and growth plate injury in young gymnast, 28:1453
Medical services, to reduce marathon runner morbidity, 28:1093
Menstrual cycle
amenorrhea in ballet dancers, 28:545
bone density and cyclic ovarian function in trained runners and active controls, 28:776
Mental retardation, cardiorespiratory capacity and, 28:366
Metabolism
Aerosport TEEM 100 Total Metabolic Analysis System, 28:509
responses to aerobic dance in pregnancy, 28:41
Methods
ambient noise interferes with auscultatory blood pressure measurement, 28:501
anthropometric estimate of thigh muscle cross-sectional area, 28:1523
assessment of Aerosport TEEM 100 Portable Metabolic Measurement System, 28:509
bioelectrical impedance equations for estimating percent fat in males, 28:523
calculation of constant supra-VO_{2peak} power outputs, 28:1505
comparison of anaerobic components of Wingate and Critical Power tests in males and females, 28:1336
cross-validation of non-exercise predictions of peak oxygen uptake in women, 28:926
determining blood and plasma volumes using bioelectrical response spectroscopy, 28:1510
effect of equilibrium CO_2 rebreathing method on blood pressure, 28:921
effect on oxygen uptake-power regression and accumulated oxygen deficit, 28:392
gravitational moment correction in isokinetic dynamometry using anthropometric data, 28:900
heart rate monitoring to assess energy expenditure in children with reduced physical activity, 28:496
measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
monitoring hydration at high altitude by bioimpedance analysis, 28:1517
new validated endurance performance test, 28:266
quantifying pronation in overpronating and normal runners, 28:299
ratio scaling of maximal oxygen uptake penalizes women with larger percent body fat, not lean body mass, 28:1204
scaling peak oxygen uptake for differences in body size, 28:259
single-subject design, 28:631, 28:639
total and segmental subcutaneous adipose tissue volume measured by ultrasound, 28:908
validity and reliability of BTE Dynatrac, 28:913
validity of skinfold estimates of percent fat in high school female gymnasts, 28:1331
3-Methoxy-4-hydroxyphenylglycol, rat brain levels after exercise, 28:204
Microgravity. *See* Spaceflight
Military
lower limb morphology and risk of overuse injury among male infantry trainees, 28:945
risk factors predicting exertional heat illness in male Marine Corps recruits, 28:939
Mood
psychological consequences of exercise deprivation in habitual exercisers, 28:1199
relation to neuromuscular function and performance during training in female swimmers, 28:372
smoking, physical activity, and depression, 28:233
Mortality. *See* Death
Multiple sclerosis, pressor response to isometric exercise, 28:656
Muscle
adaptation to spaceflight, 28:983, 28:1247
effects of altered loading states on muscle plasticity, 28:S101
anaerobic ATP production and accumulated oxygen deficit in cyclists, 28:315
anthropometric estimate of thigh muscle cross-sectional area, 28:1523
control of heart rate during exercise by muscle afferents, 28:210
countermovement jump height greater than squat jump height, 28:1402
cross-sectional area (letter), 28:931
denervated, electrical stimulation of, 28:1463
dystrophin, vinculin, and aciculin levels related to contractile activity or disuse, 28:79
eccentric knee flexor torque after anterior cruciate ligament surgery, 28:1229
effect of chromium and resistive training on strength, 28:139
effect of clenbuterol on contractile and biochemical properties, 28:669
effect of resistance training volume on strength and muscle thickness, 28:1311
EMG analysis of shoulder positioning in testing and strengthening the supraspinatus, 28:661
hemodynamic and regional blood flow responses to nicotine, 28:457
indicators of inflammation after eccentric exercise of elbow flexors, 28:953
influence of gravity on cardiovascular reflexes from skeletal muscle receptors, 28:S23
isometric intermittent endurance of four muscle groups in men, 28:145
leg power in young women, 28:1321
measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
no effect of cycling experience on leg cycle ergometer efficiency, 28:1396
regulation of oxidative metabolism and blood flow, 28:305
relationship of peak exercise capacity with indexes of peripheral muscle vasodilation, 28:1254
resistance training-induced increases in muscle mass and performance in ponies, 28:877
respiratory
adaptation to endurance exercise, 28:1115
contractility, 28:1106
fatigue during exercise, 28:1129
perfusion and energetics during exercise, 28:1123
selective muscle activation after rapid varus/valgus perturbations at knee, 28:870
tenosynovitis of flexor hallucis longus in long-distance runner, 28:277
theoretical basis for patterning EMG amplitudes to assess muscle dysfunction, 28:744
Muscular dystrophy, exercise in assessment and management, 28:421
Myosin
effects of clenbuterol, 28:669
spaceflight and, 28:S101, 28:983

N

Neural control of cardiovascular system, 28:S60
Neuromuscular disease
exercise in assessment and management in children, 28:421
optimization of force in Wingate Test for children, 28:1087

Neuromuscular function, relation to mood and performance during training in female swimmers, 28:372
Neurotransmitters, rat brain norepinephrine and metabolites after exercise, 28:204
Nicotine. *See* Tobacco use
Noise, interference with auscultatory blood pressure measurement during exercise, 28:502
Norepinephrine
plasma levels in response to nicotine, 28:457
rat brain levels after exercise, 28:204
Nutrition. *See* Diet and nutrition

O

Obesity
coronary heart disease and, 28:3
exercise effects in girls, 28:19
determinants of physical activity in children, 28:1157
exercise treatment in children and adolescents, 28:428
physical activity to reduce estrogen-dependent cancers in women, 28:322
relation to physical activity and nutrition, 28:335
Obituaries
G. Lawrence Rarick, 28:645
John R. Sutton, 28:538
Oral contraceptives
blood pressure effects, 28:7
cardiovascular risk, 28:11
Os acromiale, 28:1459
Osteoarthritis of knee, estimation of oxygen uptake in older individuals with cardiovascular disease and, 28:808
Osteoporosis. *See also* Bone mineral density
physical activity and bone mineral measures in young women, 28:105
relation to physical activity and nutrition, 28:335
Ovarian cancer, physical activity to reduce risk, 28:322
Overtraining, plasma glutamine and upper respiratory tract infection during intensified training in swimmers, 28:285
Overuse injury, lower limb morphology and risk of, among male infantry trainees, 28:945
Oxygen deficit, accumulated
and anaerobic ATP production in cyclists, 28:315
methodological effects on oxygen uptake-power regression and, 28:392
Oxygen uptake
Aerosport TEEM 100 Total Metabolic Analysis System, 28:509
effect of 6 wk of training on running mechanics and running economy, 28:860
estimation in older individuals with osteoarthritis of knee and cardiovascular disease, 28:808
during exercise after cardiac transplantation, influence of post-surgery time, 28:171
measurement during maximal exercise, 28:436
methodological effects on oxygen uptake-power regression, 28:392
regulation in skeletal muscle, 28:305
during running and in-line skating at self-selected paces, 28:247
during SCUBA diving, 28:573
in speed skaters during treadmill in-line skating, 28:120
training effects on gas exchange kinetics in patients with spinal cord injury, 28:1221
Oxygen uptake, maximal
changes after 9 wk of running or in-line skate training, 28:1422
effect of exercise intensity, 28:1138
effect of moderate-intensity endurance and high-intensity intermittent training, 28:1327
effect of slow-component rise in oxygen uptake, 28:72
gender effect on relationship of time limit at, with other bioenergetic characteristics, 28:1049
performance-matched male and female runners, 28:359
predicting functional capacity during treadmill testing independent of exercise protocol, 28:752
ratio scaling penalizes women with larger percent body fat, not lean body mass, 28:1204
running velocity at, 28:114
Oxygen uptake, peak
changes in aerobic power of women, ages 20–64 yr, 28:884
cross-validation of non-exercise predictions in women, 28:926
effect of aging and training status on cardiovascular and peak oxygen uptake responses to supine exercise, 28:892
method for calculation of constant supra-VO_{2peak} power outputs, 28:1505
in persons with mental retardation, 28:366
prognostic significance in hypertension, 28:784
relationship with indexes of peripheral muscle vasodilation, 28:1254
scaling for differences in body size, 28:259

P

Pain
low-back, in adolescents, 28:165
perception after aerobic exercise, 28:1418
Paraplegia, physical strain and physical capacity in men, 28:551
Pediatrics. *See* Adolescents; Children
Physical activity. *See also* Exercise
association with prostate cancer, 28:97
and body mass index in anorexia nervosa, 28:967
epidemiology of physical activity and physical function in older people, 28:596
increasing, a quantitative synthesis, 28:706
lipids, apolipoproteins, and Lp(a) in Northern Ireland Health and Activity Survey, 28:720
physical and sedentary activity in school children grades 5–8, 28:852
recall using cognitive model of question-answering process, 28:1282
reducing risk of estrogen-dependent cancer in women, 28:322
relationship with smoking and depression, 28:233
relation to nutrition and chronic disease, 28:335
repeatability and relative validity of two physical activity questionnaires in elderly women, 28:1020
research on disability and, 28:1366
tracking in young children, 28:92
validation of interviewer- and self-administered physical activity checklists for fifth grade students, 28:840
validity of selected physical activity questions in white Seventh-day Adventists and non-Adventists, 28:1026
Physical fitness and performance
cardiorespiratory capacity and mental retardation, 28:366
changes in aerobic power of women, ages 20–64 yr, 28:884
changes in maximal oxygen uptake and maximal treadmill time after 9 wk of running or in-line skate training, 28:1422
effect of age and training status on cardiovascular and peak oxygen uptake responses to supine exercise, 28:892
effect of chromium and resistive training on muscle strength and body composition, 28:139
effect of *Eleutherococcus senticosus* on exercise performance, 28:482
effect of inosine supplementation on aerobic and anaerobic cycling performance, 28:1193
effect of moderate-intensity endurance and high-intensity intermittent training on anaerobic capacity and maximal oxygen uptake, 28:1327
effect of resistance training volume on strength and muscle thickness, 28:1311
effect of timing of carbohydrate ingestion on endurance exercise performance, 28:1300
effect of weight loss and refeeding diet composition on anaerobic performance in wrestlers, 28:1292
gender effect on relationship of time limit at 100% maximal oxygen uptake with other bioenergetic characteristics, 28:1049
improved performance in highly trained cyclists after interval training, 28:1427
influence of walking volume on health benefits in women post-menopause, 28:1097
influence of water run training on maintenance of aerobic performance, 28:1056
inheritance of physical fitness in 10-yr-old twins and their parents, 28:1479
isometric intermittent endurance of four muscle groups in men, 28:145
leg power in young women, 28:1321
lipoprotein(a) in endurance athletes, power athletes, and sedentary controls, 28:962
maximal lactate steady state response in selected sports events, 28:241
performance-influencing factors in homogeneous groups of top athletes, 28:1305
physical activity and plasma fibrinogen, 28:1165

predicting functional capacity during treadmill testing independent of exercise protocol, 28:752
resistance training-induced increases in muscle mass and performance in ponies, 28:877
running and in-line skating at self-selected paces, 28:247
SCUBA diving, 28:591
subject-related risk factors for sports injuries in young adults, 28:1171
ultra-endurance exercise in performance-matched male and female runners, 28:359
Physical training
adaptation of respiratory muscles, 28:1115
adherence in Training Levels Comparison Trial, 28:47
athletic heart, 28:33
changes in maximal oxygen uptake and maximal treadmill time after 9 wk of running or in-line skate training, 28:1422
children and youth with chronic disease
cardiovascular disease, 28:406
neuromuscular disease, 28:421
obesity, 28:428
pulmonary disease, 28:414
diminished forearm vasomotor response to central hypervolemic loading in aerobically fit individuals, 28:1388
effect on coronary risk factors in obese girls, 28:19
effect on gas exchange kinetics in patients with spinal cord injury, 28:1221
effect on resting left ventricular systolic and diastolic function, 28:1345
effect on running mechanics and running economy, 28:860
improved performance in highly trained cyclists after interval training, 28:1427
influence of water run training on maintenance of aerobic performance, 28:1056
male reproductive system and, 28:180
modeled responses of competitive swimmers, 28:251
mood, neuromuscular function, and performance in female swimmers, 28:372
patients with malignant ventricular arrhythmias, 28:53
Physique, as risk factor for ulnar variance in female gymnasts, 28:560
Plantar flexion
measuring standing isokinetic plantar and dorsiflexion peak torques, 28:516
performance effects of new skate allowing, 28:531
Plantaris muscle, clenbuterol effects on contractile and biochemical properties, 28:669
Plasminogen activator inhibitor, effects of endurance training on circadian rhythm of fibrinolysis in men and women, 28:647
Power
body composition and leg power in young women, 28:1321
calculation of constant supra-VO_{2peak} power outputs, 28:1505
changes in aerobic power of women, ages 20–64 yr, 28:884
effects of active recovery on plasma lactate and anaerobic power after repeated intensive exercise, 28:450
methodological effects on oxygen uptake-power regression, 28:392
Powerlifting, high- and low-bar squatting techniques, 28:218
Prazosin, α_1-adrenergic constrictor tone and exercise intensity, 28:62
Pregnancy, metabolic and hormonal responses to aerobic dance, 28:41
Prostate cancer, and cardiorespiratory fitness, 28:97
Psychobiology
body mass index and daily physical activity in anorexia nervosa, 28:967
life adjustment correlates of physical self-concepts, 28:619
mood, neuromuscular function, and performance during training in female swimmers, 28:372
pain perception after aerobic exercise, 28:1418
precompetition anxiety and performance in college track and field athletes, 28:378
psychological consequences of exercise deprivation in habitual exercisers, 28:1199
recall of physical activity, 28:1282
regulating blood lactate concentration during running by ratings of perceived exertion, 28:490
reported alcohol use and behavior in long-distance runners, 28:1063
smoking, physical activity, and depression, 28:233
Public health, increasing physical activity, 28:706

Q

Quadriplegia, physical strain and physical capacity in men, 28:551

R

Range of motion, quantifying pronation in overpronating and normal runners, 28:299
Ratings of perceived exertion, for regulating blood lactate concentration during running, 28:490
Reproductive system
bone density and cyclic ovarian function in trained runners and active controls, 28:776
male, endurance exercise and, 28:180
Resistance training
chromium and, effects on muscle strength and body composition, 28:139
to counter musculoskeletal adaptations to weightlessness, 28:1247
cross-sectional and longitudinal uses of isoinertial, isometric, and isokinetic dynamometry, 28:1180
effect of training volume on strength and muscle thickness, 28:1311
effect on immune response in aging and chronic inflammation, 28:1356
high- and low-bar squatting techniques, 28:218
increases in muscle mass and performance in ponies induced by, 28:877
leg power in young women, 28:1321
Respiratory conditions. *See also* Ventilation
asthma and SCUBA diving, 28:591
asthma in children and youth, 28:414
evaluating chlorine exposure in swimmers during training, 28:271
factors limiting anaerobic performance in adolescent males with cystic fibrosis, 28:291
plasma glutamine and upper respiratory tract infection during intensified training in swimmers, 28:285
Rotator cuff disorders, os acromiale, 28:1459
Rowing
echocardiographic evaluation of heart of senior oarsman, 28:1045
longitudinal study of Olympic oarsmen, 28:1150
maximal lactate steady state response, 28:241
multivariate allometric scaling of men's world indoor championship performance, 28:626
Running
bone density and cyclic ovarian function in trained runners and active controls, 28:776
changes in maximal oxygen uptake and maximal treadmill time after 9 wk of running or in-line skate training, 28:1422
comparison of critical speed determined from track running and treadmill tests, 28:614
effect of 6 wk of training on running mechanics and running economy, 28:860
flexibility and running economy in sub-elite male distance runners, 28:737
gender effect on relationship of time limit at 100% maximal oxygen uptake with other bioenergetic characteristics, 28:1049
influence of carbohydrate supplementation early in exercise on endurance capacity, 28:1373
influence of water run training on maintenance of aerobic performance, 28:1056
marathon medical services to reduce runner morbidity, 28:1093
prolonged, gastrointestinal permeability after aspirin intake and, 28:698
quantifying pronation in overpronating and normal runners, 28:299
rearfoot and forefoot orientation and ground reaction forces, 28:225
reported alcohol use and behavior in long-distance runners, 28:1063
at self-selected paces, exercise responses to, 28:247
somatosensory-evoked potentials in runners, 28:473
tenosynovitis of flexor hallucis longus in long-distance runner, 28:277
ultra-endurance exercise in performance-matched male and female runners, 28:359
validity of regulating blood lactate concentration by ratings of perceived exertion, 28:490
velocity at maximal oxygen uptake, 28:114

S

Sailing, energy turnover in crew during offshore racing, 28:1272
SCUBA diving

cardiovascular and thermal responses, 28:581
diagnosis and management of accidents, 28:587
energetics, 28:573
historical and basic perspectives, 28:570
medical aspects, 28:591
Sedentary persons
cardiovascular disease risk in women, 28:9
determinants of physical activity in obese children, 28:1157
left ventricular function during exercise in men, 28:190
lipoprotein(a) in endurance athletes, power athletes, and, 28:962
physical and sedentary activity in school children grades 5–8, 28:852
Seizures, SCUBA diving and, 28:591
Shoes, sport, lateral stability in sideward cutting movements, 28:350
Shoulder
effect of positioning on isokinetic measures in females, 28:1188
EMG analysis of positioning effect in testing and strengthening the supraspinatus, 28:661
os acromiale, 28:1459
Sickle cell trait, exercise-induced death, 28:541
Single photon emission tomography, athletic heart, 28:33
Single-subject methodology, 28:631, 28:639
Skating. *See* Figure skating; In-line skating; Speed skating
Skiing
kinematics of cross-country ski racing, 28:128
effect on performance in women, 28:1413
recreational, numerical simulation of turning alpine ski, 28:1209
Skinfold measurements
bioelectrical impedance equations for estimating percent fat in males, 28:523
regional fat placement in physically fit males and changes with weight loss, 28:786
validity for estimation of thigh muscle cross-sectional area, 28:1523
validity of estimates of percent fat in high school female gymnasts, 28:1331
Smoking. *See* Tobacco use
Soccer, low-back pain in adolescents, 28:165
Soleus muscle, clenbuterol effects on contractile and biochemical properties, 28:669
Somatosensory-evoked potentials, measurement in athletes, 28:473
Spaceflight
cardiovascular adaptations, 28:S1, 28:977
adrenergic vascular control, 28:S85
body fluid metabolism and control of intravascular volume, 28:S56
body fluid metabolism at actual and simulated microgravity, 28:S32
changes induced by isolation and confinement, 28:S53
clinical aspects of control of plasma volume at microgravity and during return to 1G, 28:S45
clinical models of cardiovascular regulation after weightlessness, 28:S80
destruction of newly released red blood cells, 28:S42
effects of altered loading states on muscle plasticity, 28:S101
importance of animal models, 28:S94
influence of gravity on cardiovascular reflexes from skeletal muscle receptors, 28:S23
International Workshop on Cardiovascular Research in Space, 28:S1, 28:1217
lessons from operational studies, 28:S18
neural control, 28:S60
orthostatic hypotension and role of changes in venous capacitance, 28:S29
pulmonary function and cardiopulmonary interactions at microgravity, 28:S14
regional blood flow, 28:S70
regulation of systemic circulation at microgravity and during readaptation to 1G, 28:S9
research activities during past space missions, 28:S3
research issues in mechanisms of adaptation to microgravity, 28:S90
role of arginine vasopressin in regulation of extracellular fluid volume, 28:S36
integrated physiology of microgravity, 28:S107
musculoskeletal adaptations, 28:983, 28:1247
dystrophin, vinculin, and aciculin levels, 28:79
rodent studies of effects of altered loading states on muscle plasticity, 28:S101
neuroendocrine and immune system responses, 28:988
physiological adaptations and countermeasures, 28:S18, 28:974
exercise, 28:999
Speed
accuracy of five electronic pedometers, 28:1071
comparison of critical speed determined from track running and treadmill tests, 28:614
running velocity at maximal oxygen uptake, 28:114
Speed skating
effects of drafting during short-track skating, 28:765
maximal lactate steady state response, 28:241
oxygen uptake during treadmill in-line skating, 28:120
performance effects of new skate allowing powerful plantar flexion, 28:531
performance-influencing factors in homogeneous groups of top athletes, 28:1305
Spinal cord
exercise in assessment and management of spina bifida, 28:421
injury
and Chiari I malformation in contact athletes, 28:1218
physical strain and physical capacity in men, 28:551
training effects on gas exchange kinetics, 28:1221
Spirometry, Aerosport TEEM 100 Total Metabolic Analysis System, 28:509
Statistics. *See also* Methods
effects of sample size and variability on correlation coefficient, 28:386
multivariate allometric scaling of men's world indoor rowing championship performance, 28:626
ratio scaling of maximal oxygen uptake penalizes women with larger percent body fat, not lean body mass, 28:1204
scaling peak oxygen uptake for differences in body size, 28:259
single-subject design, 28:631, 28:639
Strength training
cross-sectional and longitudinal uses of isoinertial, isometric, and isokinetic dynamometry, 28:1180
effect of training volume on strength and muscle thickness, 28:1311
EMG analysis of shoulder positioning in testing and strengthening the supraspinatus, 28:661
increases in muscle mass and performance in ponies induced by, 28:877
Sudden cardiac death
patients with malignant ventricular arrhythmias, 28:53
preparticipation screening of athletes, 28:1445
Supraspinatus muscle, EMG analysis of shoulder positioning in testing and strengthening, 28:661
Sweating. *See also* Heat effects
iron loss, 28:197
Olympics in Atlanta, 28:665
Swimming. *See also* SCUBA diving
bone mineral density in in 7- to 9-yr-old females, 28:1243
creatine supplementation and sprint performance, 28:1435
evaluating chlorine exposure, 28:271
modeled responses to training and taper, 28:251
mood, neuromuscular function, and performance during training in females, 28:372
plasma glutamine and upper respiratory tract infection during intensified training, 28:285
Sympathetic nerve activity
lumbar, increased by onset of exercise in rats, 28:677
simulated microgravity and adrenergic vascular control, 28:S85
unilateral carotid sinus stimulation and, 28:815

T

Technology
accuracy of five electronic pedometers, 28:1071
Aerosport TEEM 100 Portable Metabolic Analysis System, 28:509
exercise science and information superhighway (letter), 28:931
validity and reliability of BTE Dynatrac, 28:913
Tenosynovitis, flexor hallucis longus, in long-distance runner, 28:277

Testosterone, endurance training effects in men, 28:180
Tetralogy of Fallot, 28:406
Thermoregulation
heat and exercise effects on sweat iron loss, 28:197
Olympics in Atlanta, 28:665
responses to SCUBA diving, 28:581
risk factors predicting exertional heat illness in male Marine Corps recruits, 28:939
Tissue plasminogen activator, effects of endurance training on circadian rhythm of fibrinolysis in men and women, 28:647
Tobacco use
coronary risk, 28:3
hemodynamic and regional blood flow responses, 28:457
relationship with physical activity and depression, 28:233
Track and field events, precompetition anxiety and performance in college athletes, 28:378
Training. *See* Physical training
Transplantation, heart
influence of post-surgery time on exercise responses, 28:171
short endurance training improves lactate removal ability after, 28:801
Transposition of great arteries, 28:406

U

Ulnar variance, physique as risk factor in female gymnasts, 28:560
Ultrasonography. *See also* Echocardiography
Doppler studies of forearm blood flow during rest and exercise, 28:1144
indicators of inflammation after eccentric exercise of elbow flexors, 28:953
total and segmental subcutaneous adipose tissue volume measurement, 28:908
Upper respiratory tract infection, and plasma glutamine during intensified training in swimmers, 28:285

V

Vasodilation
peripheral muscle, relationship with peak exercise capacity, 28:1254
in skeletal muscle, 28:305
Ventilation. *See also* Respiratory conditions
adaptation of respiratory muscles to endurance exercise, 28:1115
Aerosport TEEM 100 Total Metabolic Analysis System, 28:509
contractility of ventilatory pump muscles, 28:1106
influence of exercise and athleticism on ventilatory sensitivity to carbon dioxide, 28:685
measuring cardiovascular and gas exchange variables during maximal exercise, 28:436
occlusion pressure with, and response to maximal exercise, 28:444
persons with mental retardation, 28:366
pulmonary function and cardiopulmonary interactions at microgravity, 28:S14
respiratory muscle fatigue during exercise, 28:1129
respiratory muscle perfusion and energetics during exercise, 28:1123
responses to SCUBA diving, 28:581
Vinculin, in skeletal muscle, 28:79
Vitamin C, effect on absorption of ferric sodium citrate, 28:1470

W

Walking
accuracy of five electronic pedometers, 28:1071
influence of exercise intensity on postprandial lipemia, 28:1235
influence of volume on health benefits in women post-menopause, 28:1097
Water balance. *See* Fluids; Hydration
Weightlessness. *See* Spaceflight
Weightlifting
high- and low-bar squatting techniques, 28:218
lipoprotein and cholesterol in body builders using anabolic androgenic steroids, 28:176
Weight loss
body mass index and daily physical activity in anorexia nervosa, 28:967
effect of weight loss and refeeding diet composition on anaerobic performance in wrestlers, 28:1292
obese children and adolescents, 28:428
regional fat placement in physically fit males and changes with, 28:786
Wingate test
anaerobic components in males and females, 28:1336
children with neuromuscular disease, 28:1087
Wrestling, effect of weight loss and refeeding diet composition on anaerobic performance, 28:1292
Wrist
pain and growth plate injury in young gymnast, 28:1453
physique as risk factor for ulnar variance in female gymnasts, 28:560

Z

Zone of Optimal Function theory, 28:378